

## High-school students see projects demonstrated at science symposium



Gustav Drier '63 demonstrates current work by electrical engineering students to high-school students and instructors at the Junior Science Symposium here last Thursday and Friday. Two hundred high-school students and instructors attended.

—Photo by Stephen Bless

## Major tenants drop plans to rent in Technology Square

IBM and C-E-I-R will not occupy space in 545 Technology Square at the present time. The International Business Machines Corporation had planned to occupy Floors 2, 3, 4, and 5 of the nine-story building, and the Corporation for Economic and Industrial Research would have leased Floors 8 and 9.

IBM has signed a lease for the four floors with Technology Square's developer, a joint corporation of MIT and Cabot, Cabot & Forbes Co. Now, however, IBM is subleasing to other tenants.

MIT has temporarily moved its Accounting Office to the second floor of the building. Other likely tenants for the IBM floors include a government agency and several small offices, according to Payson Hunter, manager of real es-

tate for IBM's Data Processing Division.

### 'Internal reasons'

IBM and C-E-I-R decided not to occupy because of "internal reasons," said Robert Walker of Cabot, Cabot & Forbes Co. James Martin, financial manager of C-E-I-R, said his firm canceled its plans because "we could do better cost-wise." He also stated that internal reasons played a part in the company decision.

Martin added that C-E-I-R had considered canceling its occupancy plans last summer, but made the final decision only a few weeks ago. He said that C-E-I-R considers Technology Square's location ideal.

A \$15.7-million computer facility had been planned for the building by C-E-I-R, an electronic

data-processing firm. The facility would have included an IBM 7030 STRETCH computer system, three IBM 1401's, and an IBM 1410. It would have been the largest commercial data-processing system in existence.

### Tenants sought

To fill the vacancies caused by the decisions of IBM and C-E-I-R, Cabot, Cabot & Forbes Co. is

(Please turn to page 2)

## No Bexley applications should be made now, says Dean Fassett

No applications should be made for rooms in Bexley Hall at this time, according to Dean of Residence F. G. Fassett Jr. As final arrangements concerning the availability of space in Bexley have not yet been completed, students should apply for dormitory rooms as if Bexley were not available. All applicants will receive assignments in the present four dormitories.

In a week or two Dean Fassett hopes to post information concerning applications for Bexley. He will then go through the applications, attempting to obtain a cross section of classes and houses, and make assignments accordingly.

"Those who subsequently are assigned to Bexley Hall will of course be released from prior assignment to one of the houses," explained Dean Fassett.

## Open House Saturday first in four years

MIT will hold its first Open House in four years this Saturday, from noon to 5:00 pm.

More than 150 exhibits and demonstrations from academic departments and research centers will be presented for public inspection.

The budget for the Open House Committee is about \$3000. This figure is approximately \$1000 higher than the original estimate, reported Bob Blumberg '64, co-chairman of the committee.

Of this budget, \$2000 has been allotted for printing of the pro-

grams to be distributed to visitors. Also, the committee is purchasing 10,000 copies of this week's issue of The Tech for distribution to the guests.

A large number of student activities will be represented.

Color-coded routes will guide visitors through the buildings. Maps and brochures describing the events and how to find them will be available in Building 7.

Also, student guides will be on hand to advise and assist.

Refreshments will be served in specified locations. Ample free parking will be available.

Through newspaper, radio, and television publicity, MIT is extending an invitation to the general public. Brief public-service announcements have been submitted to four Boston television stations for broadcast.

## Open House Section

Pages 9-14

## DuPont gift endows professorship

A gift of \$500,000 has been made to endow a Lammot du Pont Professorship of Chemical Engineering.

The new professorship was made possible by contributions from members of the family of the late Lammot du Pont, of Wilmington, Delaware, who died in 1952.

After graduating from MIT in 1901, he was president of E. I. du Pont de Nemours & Co. from

1926 to 1940 and chairman of the board until 1948.

The Lammot du Pont Professorship is the first fully endowed chair in the Department of Chemical Engineering, and one of eight sought by the Institute in the \$66-million Second Century Program.

The David Flett du Pont Athletic Center was made possible by a one-million-dollar bequest in 1955 from a son of Lammot du Pont.

## Foreign opportunities

## Open meeting Tuesday

Overseas job opportunities, study fellowships, and graduate field programs will be discussed at an open meeting at 5:00, Tuesday, in the Kresge Little Theater.

The leader of the discussion, which will be open to all graduate and undergraduate students, will be Prof. Kenneth R. Wadleigh, dean of student affairs.

Professor B. Alden Thresher will speak on the Fulbright, Marshall, and other foreign fellowships. Professor W. Gilbert Strang will discuss the Rhodes Scholarship; and Professor Dan Nyhard will explain the Course-15 graduate fellowships in Africa.

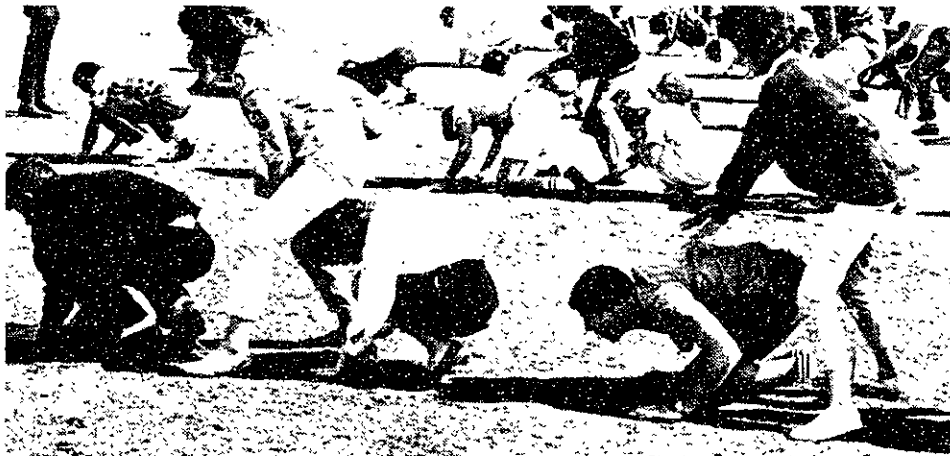
The Inter-American Program of the Civil Engineering Department will be explained by Professor Fred McGarry. Mr. Thomas Harrington, of the Student Placement

Office, will speak on opportunities for working overseas.

Paul Shapiro '63 will explain student activities in the field of foreign opportunities.

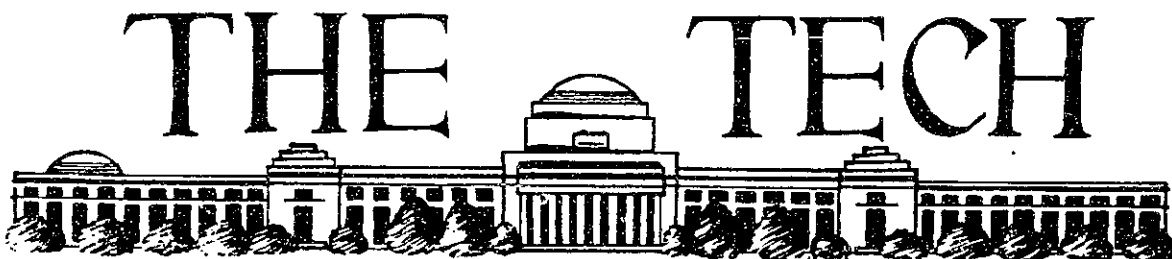
After the speeches, there will be a question-and-answer period and informal discussions with the speakers.

## Chi Phi takes Olympic Games trophy



Fraternity men and their dates took part in Olympic Games at the opening of Interfraternity Conference Weekend last Saturday afternoon on Briggs Field. Chi Phi, the winner of the competition, was awarded a trophy by Dean of Residence Frederick H. Fassett at Saturday evening's dance in the armory. Second and third place finishers, Alpha Epsilon Pi and Alpha Tau Omega, received plaques.

At left, Phil Strause '65 AEPI, goes into the final lap of the tricycle race, which the AEPI's won. At right, teams compete in the leap frog contest. Chi Phi won this event.



Established At MIT In 1881

Vol. 83, No. 11

Cambridge, Massachusetts, Wednesday, April 24, 1963

Five Cents

## City policy may change

## Cambridge ponders taxing married students' dorm

By Bill Judnick

The Cambridge Board of Assessment is considering the alternatives of full taxation or payments in lieu of taxes for the married students' housing.

Should the board choose the former, it would be differentiating the apartments from housing for single students. Student dormitories are now considered academic property not subject to taxation.

Past Cambridge policy has permitted MIT to make payments in lieu of taxes on all but invest-

ment properties. MIT's payments have often made the school the largest taxpayer in Cambridge for the past few years.

Thomas F. Gibson, chairman of the Cambridge Board of Assessment, stated Monday night that MIT officials had been notified in conferences that Cambridge would consider the new apartments "fully taxable, as any other income-producing property."

He saw no reason why the city should "subsidize" the wives and children of married students. Their use of public utilities and

schools, both supported by tax revenues, in no way justifies their exemption from full taxation, he said.

When asked if MIT had been officially notified, Gibson replied, "How official can you get?" and affirmed that the city's position had been made clear to MIT officials in their conferences with the Board.

However, Institute Treasurer Joseph J. Snyder stated that he expects official notification in the form of a "documented communication" during the coming year.

Other local universities are awaiting developments and the effect these developments will have on their own projects.

A precedent was set in 1959, when Boston University commenced litigation over a proposed tax on their married student project. The controversy was settled out of court, in favor of payment in lieu of taxes to the city of Boston.

Harvard University is now beginning construction on an 18- to 20-story apartment house for married students. The building will be completed in 1964.

Payments in lieu of taxes are generally considered more favorable to the taxpayer than full taxation in that taxes are based upon a "sliding scale," whereas payment amounts, once fixed, remain constant.

## Exam schedules out

All students may obtain a final examination schedule at the Information Office, Room 7-111. Exams not listed and conflicts in exams must be reported to the Registrar's Office by Monday, May 6.

## Last two departments hold freshman open houses

### Chemical Engineering

The Department of Chemical Engineering will hold its orientation open house for freshmen this afternoon in the Walker Room, 12-011, from 4:30 to 5:30.

The Department's main aim is to cultivate its students' capacities for handling new problems with competence, since the chemical engineer must be equipped to do more than handle present problems.

New areas in synthetic organics, microbiology, pharmaceuticals, plastics, petrochemicals, new metals, and atomic energy all fall within his domain. The chemical engineer must understand the principles involved in these new developments and must be prepared to pioneer in unknown areas.

Two programs are offered leading to either of two bachelor-of-science degrees: one in chemical engineering and one in chemical engineering practice. The latter

involves one term of study at field stations in industry.

The undergraduate subjects are designed to provide basic studies in physics and mathematics, a major concentration in chemistry, and a strong core of chemical engineering. Considerable latitude in arranging a selection of subjects is available to each student so that he may best fit his needs and develop his aptitudes.

A professional minor, in such fields as humanities and industrial management, is required. It may be equivalent to as much as one and a half terms of full study. The choice of a field is up to the student, but guidance is provided by faculty counselors.

In addition to the above program, the department offers a program in materials science and engineering. The degree requirements are essentially the same as those for chemical engineering.



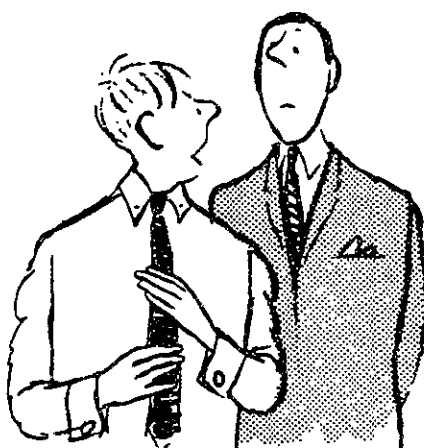
1. With graduation coming up, looks like we'll have to start thinking about the future.

My philosophy is to live from day to day.



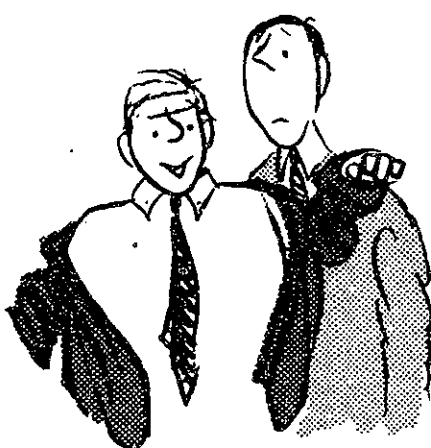
2. That's fine when you have no responsibilities. But chances are you'll have a wife to think about soon.

I may just decide to lead the bachelor life.



3. Hardly likely, since 93 per cent of all men and women get married.

Is that so?



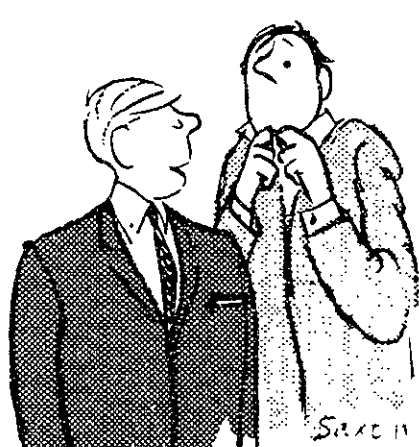
4. Yes, indeed. What's more, you'll have children to consider.

Maybe we won't have any.



5. I doubt that — after all, 90 per cent of the women who get married today have children. And, on the average, they have all their children before they're 27.

All my life I've shirked responsibility. Have a ball, enjoy yourself — that's my motto. Now, in two minutes, you've given me a wife and who knows how many children to take care of. What should I do? Where do I begin?



6. First relax. Then look into some good insurance... like Living Insurance from Equitable. It gives the kind of protection every family should have. Helps you save for the future, too. And don't worry — your chances for a happy family life are very good.

I should never have roomed with a statistics major.

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For information about Living Insurance, see The Man from Equitable in your community. For information about career opportunities at Equitable, see your Placement Officer, or write William E. Blevins, Employment Manager.

## Aeronautics and Astronautics

The Department of Aeronautics and Astronautics will hold an orientation open house for freshmen interested in Course 16 tomorrow at 4:00 pm in the Du Pont Room, 33-207.

Aeronautics and Astronautics deal with the problems of manned and unmanned vehicles that operate above the earth's surface. Operation of aerospace systems requires solving the problems of support, air resistance, propulsion, strength of minimum weight structures, control, and measurements under difficult environmental conditions.

It is the primary objective of the department to give a clear understanding of all these important problems.

Course 16 offers three programs of study. The Engineering program is aimed at students interested in design; it terminates in the bachelor's degree. The emphasis in this program is on flight-vehicle engineering.

The second program, Engineering-Science, is aimed at those preparing for graduate study. Less emphasis is placed on flight vehicles and more emphasis on experimental projects.

This program also stresses an advanced physics and mathemat-

ics curriculum to prepare students to work in research. Thus, 8.031 and 8.041 are taken in the sophomore year, and gas dynamics, rather than aerodynamics, is required in the junior year. Advanced calculus and solid mechanics similarly replace the vehicle structure courses of the Engineering program.

Like the Engineering program, the Engineering-Science program is designed to serve as a terminal program. It is expected, however, that a rearrangement of course content to permit a smooth transition into graduate work will be a common feature.

A special Honors Course for students in both programs is also offered by the department. A limited number of students of superior ability are invited by the department to participate during their junior year.

The program requires completion of all units and humanities requirements for the bachelor's degree and for either the master's degree or the degree of engineer in aeronautics and astronautics. Each student receives his master's and bachelor's degree simultaneously at the end of his fifth year, and is required to do only one thesis.

## Liechtenstein crown prince visits campus

Crown Prince Johann-Adam, son of reigning Prince Franz-Joseph II of Liechtenstein, toured MIT last Wednesday afternoon.

Upon his arrival, the eighteen-year-old Hapsburg descendent spoke briefly with Malcolm G. Kispert, vice-president in charge of academic administration, and then toured the Computer Center.

During his visit, the prince expressed an interest in the role of government in research and inquired about the extent of student participation in government-sponsored research.

On a six-week trip through the United States, Prince Johann first visited his younger brother in Texas. Thursday he traveled to Washington to visit President John F. Kennedy.

Currently studying in Switzerland, the prince said that he would like to come to the United

States and "perhaps attend Harvard for a year."

Liechtenstein, with a population of 17,000 and an area of some 61 square miles, is the sole survivor of the 343 states which once made up the Holy Roman Empire.

## Display in Building 7 lobby has 3000 German books

Contemporary German books, reflecting the literary, artistic, and scientific activities in the Federal Republic of Germany, are on display in the main lobby of Building 7. The exhibit opened April 11 and will continue through tomorrow.

The exhibition, organized by the German Publishers' Association, is being presented in six major United States cities. More than 3000 volumes are on display.

## Two companies will not occupy Technology Sq.

(Continued from Page 1)

seeking new tenants for 545 Technology Square. The tenants at present are the Institute of Naval Studies, the MIT Accounting Office, an MIT computer group, Grumman Aircraft Engineering Corp., a Servend restaurant, and Larry's Barber Shop.

Technology Square, when completed, will be a \$15-million industrial research center composed of four buildings. Ground-breaking for the second building will take place tomorrow.

This building is to be of the same design as the one already constructed. Nine stories in height and faced in walls of cast stone and gray glass, it will have 155,000 square feet of floor space. The ground floor will be available for commercial facilities, including banks, restaurants, and shops.

## Two more buildings

Two additional buildings are planned—a twenty-story tower and a two-story display center or executive office building. In all, Technology Square is to have 800,000 feet of floor space.

The center is being built on a 14-acre site. Five acres of this, known as the Rogers Block, was purchased from the Boston Redevelopment Authority after tenements and other buildings on it were cleared.

The largest portion of the site was purchased from Lever Brothers, whose buildings there were obsolete and idle. The closing of streets within the project area made possible the joining of the various parcels of land.

The property when developed will be fully tax-paying.

In the original announcement of plans for Technology Square, Mr. Gerald W. Blakeley Jr., president of Cabot, Cabot, & Forbes, commented, "Our firm... finds that the major factor in the choice of their location has been proximity to MIT. Now through this unique collaboration we will be able to provide modern facilities directly adjacent to the laboratories, libraries, and other resources of MIT. Up until now it has been necessary for companies desiring this association to locate as far as eighteen miles away."



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## Queen to be crowned Saturday at Spring Carnival



Myrna Chasen, Simmons College, is the date of Ray Teitelbaum '64.



Arlene Rifkin, Boston University, is the date of Fred Tawfik '64.



Marcia Wegner, Simmons College, is the date of John Eulenberg '64.



Donna Klimoski, New England Conservatory of Music, is the date of John W. Miller '64.



Lauren Villeneuve, Weymouth High School, is the date of John Kasakian '65.



Carol Morse, Boston University, is the date of Stuart Madnick '66.



Carolyn Mullin, Wheaton College, is the date of Carl Mampaey '64.



Donna Eastman, Editor at Little, Brown, and Co., is the date of Jim Weil '65.

The 1963 Alpha Phi Omega Spring Carnival will begin at 7:30 Saturday night in Rockwell Cage.

Voting for the Carnival Queen is being conducted this week at the Carnival booth in the lobby of Building 10. Dean of Residence Frederick G. Fassett Jr. will crown the winning contestant at the carnival.

The carnival this year will have a record number of booths. The dunking, hamster-race, and

car-wrecking booths, which were events at last year's carnival, will appear again this year, along with strength-tester devices and other new competitions.

APO will award four trophies: a grand prize for the most successful booth, a trophy for the most original booth, the queen trophy, and a second-place trophy.

The proceeds from the carnival will be used by APO for its service projects.

## Also ground-breaking

### Awards program May 15

The annual Awards Convocation and the ground-breaking ceremony for the new Student Center will take place as a combined exercise May 15 in front of Kresge Auditorium.

Classes will be cancelled from 11:00 am to noon for the hour-long program.

Public presentation of six awards will be omitted this year to allow time for the ground-breaking. These are the six purely academic awards.

According to a tentative schedule, the Awards Convocation will be opened by Jerry Luebberts '64, Undergraduate Association president.

He will be followed by Prof. Ross Smith, director of athletics, who will present the Clifford Award to the outstanding athlete of the year. The Cochrane Award will be presented for athletic excellence and sportsmanship.

There will follow a combined presentation of the Athletic Association Awards—Beaver Key Trophy and Q-Club Award.

Baton Society will then present its awards to seniors making notable contributions to music at MIT. Tau Beta Pi's Outstanding Freshman Award is scheduled to be followed by the Scott Paper Foundation Award given to the junior showing high character and community consciousness.

The final awards will be the Karl Taylor Compton Prizes given to persons promoting high

standards of achievement and good citizenship in the MIT community. The presentation will be made by Mrs. Karl Taylor Compton, who will be introduced by Kenneth R. Wadleigh, dean of student affairs.

The assembled group will then move to the northwest corner of Kresge Plaza, midway between the auditorium and the Du Pont Athletic Center, for the ground-breaking ceremonies.

President Julius A. Stratton will make a few opening remarks, followed by an introduction by Dean Wadleigh of honored guests who have worked for the new Student Center.

Henry Bowman '63 will speak briefly and then proceed to a joint ground-breaking with Dr. Stratton. Dean Robert J. Holden will close the convocation.

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**SPACIOUS,** low-priced 5 room apt. to let June 1-Aug. 30. Perfect for 3-6 persons, 629 Commonwealth, one block from Kenmore Sq. Call H. Ellis, x-3205 or 267-7670.

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**WANTED TO RENT** — MIT Grad wishes to sublet furnished bachelor apartment from June 10 to Sept. 6. Full furnishings, private entrance, private bath (shower), quiet location, and reasonable rent are essential. Please send complete description to Neil Doppelt, 6387 Morrowfield St., Pittsburgh 17, Pa. Will consider Back Bay, Brookline, Allston, perhaps Cambridge.

## Cost \$6 million

### Lab dedication Tuesday

Several research administrators from the United States Air Force and Department of Defense will participate in the dedication of the new six-million-dollar National Magnet Laboratory next Tuesday.

The new laboratory apparatus

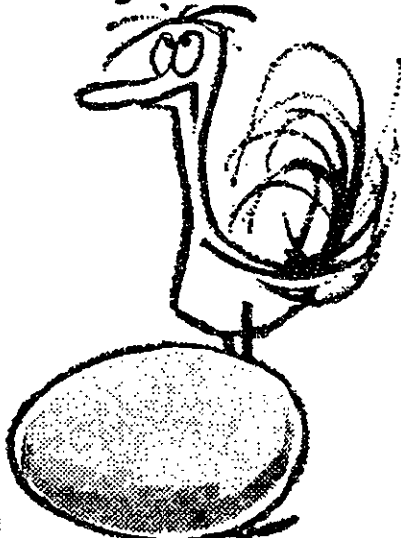
will generate intense fields for use in research. Of particular interest to current researchers is the effect of these fields on nuclear, atomic, and molecular structures and on the properties of materials.

The dedication-day program will include guided tours of the laboratory starting at 1:30 pm, dedication ceremonies at 4:00 in the laboratory's large motor-generator hall, and a dinner at the Faculty Club in the evening.

Among those who have accepted invitations to be present at the dedication is Endicott Peabody, governor of Massachusetts.

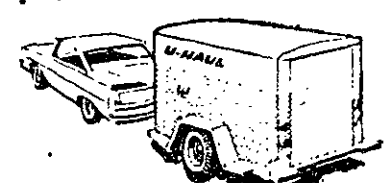
The laboratory is at 170 Albany Street in Cambridge.

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apo carnival

saturday 7:30-12

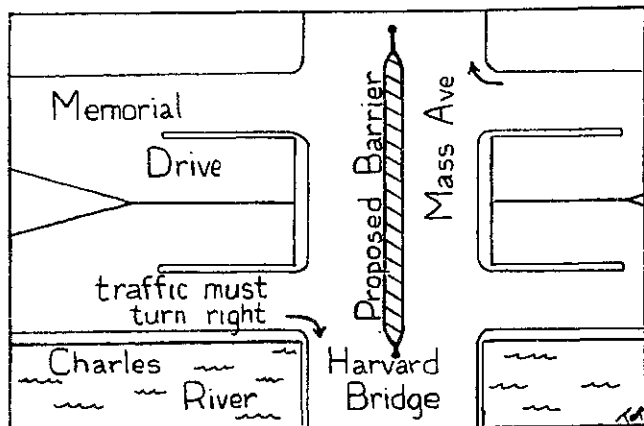
rockwell cage

## To prevent this:



—Photos by Joseph Baron

## We suggest this:



### A traffic island

Hardly a week goes by without a collision at the Massachusetts Avenue-Memorial Drive intersection. All of the collisions are expensive, and often people are injured. Most of the mishaps involve left-turning vehicles.

To prevent these accidents we suggest that a traffic island be built across the intersection. It would run along the center of Massachusetts Avenue from the bridge to the bus stop, and would prevent all left turns and conflicting traffic moves. It should also speed up traffic flow and reduce peak-hour congestion.

### White tie and tails

Each year the Walker Student Staff works long and hard to finance and prepare a formal dance which it gives for the Institute Community—the Assemblies Ball. Few people are aware of the several thousands of hours of effort that made A-Ball a memorable evening for over 350 couples Friday night. MIT is almost unique among American universities in having an annual white-tie formal affair.



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## Change at MIT

To carry out MIT's mission of educating for leadership, this university must be a dynamic enterprise, with little sentiment for the past. Change is one dominant aspect of MIT.

Three major areas of change planned by MIT concern education, research, and university environment.

**Education.** Professional scientific education is made complicated by the growing mass of information in all fields. It is essential to teach the new concepts. However, students would be overwhelmed if new material were simply added to the old. New teaching techniques are needed. Three recent developments at MIT are:

1. Teaching by computers. Management games, political games, and structural models analyzed by computers give instant evaluations of the student's decisions.

2. Home laboratory kits. Each student is given equipment to conduct experiments outside the laboratory. He is allowed to do as many experiments as he likes.

3. Freshman seminars. Small groups of freshmen meet for several hours each week with a faculty expert and conduct individual research projects.

Each of these techniques is designed to give students quickly the kind of intuitive insight that usually comes slowly from experience.

**Research.** To create new facilities for research, MIT is building five interdepartmental centers: Aeronautics and Astronautics, Communication Sciences, Earth Sciences, Life Sciences, and Materials Science and Engineering. The new centers will permit closer coordination of research in overlapping fields.

The Green Center for the Earth Sciences, a 20-story building, is now rising on the East Campus. Construction of the other four centers will soon begin.

**Environment.** One of the important trends at the Institute is the growth of the non-academic environment. Undergraduates have first priority on the use of the recently built Kresge Auditorium. The chapel, Du Pont Athletic Center, and the forthcoming Student Center are other facilities to improve the campus environment.

On-campus housing is also expanding in quantity, quality, and variety of groups served. Apartments for married students and the women's dormitory are under construction, and additional space for several hundred men is expected shortly.

During the past century, MIT, formerly a local technical school with all students commuting, has evolved into a residence university. Last year's students came from 49 states, and 13 percent of the student body comes from 75 other nations. The student body today is the most cosmopolitan in the United States.

This university's increasing contribution to the Boston-area economy is another significant trend. Route 128, or Electronics Row, is lined with space-age firms attracted by proximity to MIT. Over 120 Massachusetts firms have been founded by Institute graduates.

An extraordinarily high rate of change is the dominant fact of this century. The Institute's willingness to change is in step with the times. But MIT is holding fast to one central goal in this era of change.

As President Julius A. Stratton says, this goal is "to send forth men and women of the highest professional competence, with the breadth of learning, the understanding, and the character to deal with the increasingly complex problems of this modern technological society."

### New teaching techniques

## Inside Incomm

### APO proposes social weekend combined with annual carnival

—by Jerry Luebbers, UAP—

In planning for next year, the question of a second weekend has come up again. It is a personal belief that there is not a saturation phenomenon at work—there is a market for a spring-term weekend at MIT. Alpha Phi Omega has come up with a very interesting proposal which may offer the variety needed for a successful social function.

They have proposed a weekend in conjunction with their annual carnival, and have volunteered their service in running it.

For Friday night, the tentative schedule includes a dance. Saturday events would be informal living-group participation in building competitive "super-carnival" booths during the morning; top-name entertainment in the afternoon; and the carnival, possibly with a rock-and-roll band, Saturday night.

The living-group competition for carnival prizes would add needed enthusiasm.

In conjunction with the planning of social weekends, several pertinent questions arise:

- (1) What time of year?
- (2) Should the dance Friday night be formal or informal?
- (3) Should the dance be held on campus or at a country club or Boston hotel?
- (4) What type of entertainment?
- (5) Should there be a name band Friday night or a top entertaining group Saturday afternoon?
- (6) What special events should be included (such as a boat excursion, a sports day, a beach picnic on Saturday)?

Answers to these questions will be sought in a meeting of social chairmen some time in the next two weeks.

In order that your chairman may be well informed, how about stopping him in the hall, corraling him at dinner, or pounding on his door and filling him in on your ideas?

## Kibitzer

By MICHAEL LINAH

**NORTH**  
♠ J 10 7  
♥ A K 10 4  
♦ 8 7 6 5  
♣ Q 6

**WEST**  
♠ A 5 3  
♥ Q J 9 8  
♦ 4 3  
♣ J 10 9 4

**EAST**  
♠ 4 2  
♥ 3 2  
♦ A K Q J 9 2  
♣ 8 7 5

**SOUTH**  
♠ K Q 9 8 6  
♥ 7 6 5  
♦ 10  
♣ A K 3 2

NORTH-SOUTH were vulnerable at match points. West dealt.  
**WEST** Pass  
**NORTH** Pass  
**EAST** 4♦  
**SOUTH** 4♣  
5♦ 5♠ ALL PASS

West led the four of diamonds. Duplicate bridge players often with seeming abandon make bids and plays that a conservatively orientated rubber bridge player would never think of making. Today's East player took a very aggressive four-diamond bid in third seat after two passes. Since his hand contained at least seven losers by itself, he risked a seven hundred-point set. As the cards lay, he was down five hundred points, doubled at four diamonds, but since North-South could make four spades for a score of six hundred twenty, it was a good result.

South next took an even more aggressive bid. Four spades could easily be set eleven hundred points. But as the cards lie, South could make four spades. It would have been better technique however, for South to pass. North would then have balanced dou-

ble, giving South the opportunity to show his spades.

West next bid five diamonds, hoping that four spades would make and that five diamonds would be off three tricks. North probably should have doubled, but he, too, chose the aggressive path and bid five spades, where the auction ended.

West opened the four of diamonds, East winning with the ace and continuing the suit, South ruffing. South drove out the ace of trumps, and pulled the remaining defender's trumps.

South now needed the balance of the tricks, but was faced with a club and a heart loser. He now invoked the basic theorem of duplicate bridge: When playing in an unusual contract, if there is only one distribution of cards which will permit the contract to be fulfilled, you must play for it. South therefore led a small heart, and when West played low, inserted the ten from dummy, which won the trick. If West splits his honors, South wins, and play proceeds similarly. South next led the queen of clubs, followed by a small club to his hand where he cashed the Ace and King. South now had brought about this position:

**NORTH**  
♥ A K 4  
♦ 8

**WEST**  
♥ Q J 9  
♣ J

**EAST**  
immaterial

**SOUTH**  
♠ K  
♥ 7 6  
♦ 2

(Please turn to page 16)



PEANUTS appears daily and Sunday in the Boston Herald.



## Harvard houses' theater groups to present several productions

By Charles Foster Ford

With the Loeb Drama Center and Agassiz Theatre on both sides of Brattle Street, perhaps you'd think the Harvard theatrical community would be brimming over with time and space for their activities. But no; not content with these facilities, the dramatically inclined at Harvard every semester mount several productions in their dormitories themselves.

The "houses of Harvard," as they are called, almost all have drama societies to which the entire house can devote time and talent. Often, one of these house societies will act as the producing group for a show mounted at Loeb or at Agassiz. More often, however, they produce the show entirely themselves, on temporary stages erected in dining halls or common rooms.

### Excellent theatre

Some of the finest theatre at Harvard is produced in the houses. This is partly because there is a lot of team spirit involved in producing a show in a dining room, and partly because the whole student community of the house acts as a work force which can be pressed into service whenever needed.

Unlike workers at the Loeb or Agassiz, they can work around the clock if necessary to iron out technical problems. Also, since most houses do only one show a year or one a semester, their work schedules are usually much longer than those in the busy theatres.

### Technical challenges

The house show itself presents many challenges to technical crews that would never occur in theatres. There is never any fly-space for storing sets, and no architectural provisions for lighting equipment. Except in a few houses where permanent sections of stage have been constructed and stored, everything must be built from scratch.

Some shows can take advantage of their technical difficulties, as last year's production of 'On The Town' did by restricting sets to a minimum of sketchy signs and props. Others, like 'The Country Wife' in Winthrop House last

year, are swamped by their technical flaws.

### Impressive heights

But there are many productions each year that rise above their physical problems to quite impressive heights. The dining hall of the new wing of Quincy House has seen two impressive productions of Shakespeare: 'Romeo and Juliet' last year, and 'Richard III' last semester. Both productions were excellent technically. 'Richard III' was one of the best productions at Harvard this year, and many people found it much more impressive than Olivier's interpretation. Winthrop House, which does several productions each year, just finished a short run of 'Where's Charley?', one in a series of quite successful musical comedies which have appeared in their dining hall.

### 'Babel' now playing

Characteristics of the house show, which is often an original play or musical written by residents of the house, is 'Babel.' This original play with music, written by Harvard students, will play at Lowell House April today through Saturday, with two shows (7:30 and 9:30) Saturday. Many new works by students see first production as house shows. Most notable was 'Sing, Muse!'—a musical based on the Iliad, which went from Harvard to an off-Broadway theatre where it made its author, Eric Siegal, a comfortable profit. Arthur Kopit's early one-act plays were also first seen as house productions.

### At term's end

The only other production so far announced is the Eliot House production of 'Measure for Measure,' scheduled for May 24 and 9-12. But the year is young. Most houses take advantage of the lengthy schedule, and work for an entire semester on one show. Thus, they all seem to get into production near the end of the semester, about reading-period. Last year Harvard houses mounted five productions in the same week, making things difficult for the determined theatre-goer. Despite the hyper-activity at Loeb and Agassiz this season, you can be sure that in the coming months the houses will be equally prolific.

## music at mit...

## Kresge ballet proves mixed success

By David E. Trevett

The combining of the Boston Dance Theater and the MIT Symphony Orchestra to present a program of three ballets last weekend was a truly significant occasion. It represented the introduction of a new level of art and entertainment into the MIT spectrum.

Overall, the evening was a great success. The greatest shortcoming of the dancers was a lack of precision and coordination. One frequently felt that their actions should be together, although they obviously weren't.

The evening opened with the classical ballet 'The Seasons,' to the music of Glazounov. This performance was easily the weakest of the three. The choreography by Ruth Ambrose, though brilliant in some places, lagged miserably in many others.

Missing in many places was a rapport between orchestra and dancers. Although together in timing, they were frequently widely separated in mood. The orchestra showed a wide range of emotion, but the dancers seemed unable to capture the spirit of the moment.

The highlight of the ballet was the 'Summer' pas de deux by Ellen Wollenhaupt and Boston Conservatory faculty member William Costanza. There were precision, grace and finesse in their dancing; and from an artistic as well as a technical standpoint, there was little left to be desired in their portrayal.

Next on the program was 'Roots of Sand.' A woman who

lives in memory of a youthful love affair awaits, and is then confronted with, her former lover. Confused, bewildered, she suddenly relives in a dream sequence both the affair and the torment which followed. Realizing that what she loved in the boy is no longer present in the man, she can return to reality, enjoy a few moments of gaiety, and then in confidence turn away.

Gerry Siddons did a remarkable job with the score. There was drama, gaiety, tragedy, comedy, everything necessary for the contrasting moods and themes of the ballet. The choreography of Robert Gilman, of the Boston Conservatory faculty, captured almost everything desirable.

The dancers in this ballet were excellent. Sally Lee, who danced the lead, gave a performance beyond superlatives. Costanza, as the returned lover, was again superb. The entrance into the dream sequence was a masterpiece of choreography and lighting, as both scene and costume changes for the two leads were skillfully blended into the dancing, actually adding to, rather than detracting from, the total effect.

Lighting during the dream sequence was quite effective, and dancing was truly professional. In the scene following the reliving of the love affair, for example, Puritan figures close in on Miss Lee from all sides and grotesque forms appear from every shadow, relentlessly accusing her. As lights rapidly change color and the music grows louder and faster, she races frantically around

MIT SYMPHONY ORCHESTRA. John Corley, conducting, with the BOSTON DANCE THEATRE. A ballet program, presented in Kresge, April 19, 20, and 21, by the Boston Society. Lighting by Robert Mackey; stage manager, David O'Connell.

### PROGRAM

'The Seasons' Music by Alexander Glazounov Choreography by Alexander Glazounov  
Choreography by Ruth Ambrose and Sally Lee  
Set by Katrine Hooper  
'Roots of Sand' Music by Gerald Siddons Choreography by Robert Gilman Costumes by Sally Lee and Dennis Rager  
Sets by Eric Levenson  
'The Incredible Flutist' Music by Walter Piston Dance play by Jan Veen Costumes and set by Marco Montedoro

the stage, unable to escape. A crash, and sudden quiet, the dream has ended. This scene, powerful in its effect, was the high point of the ballet, if not of the entire evening.

Most satisfying in this ballet was the fact that the orchestra and dancers seemed to jell, working as a unit. The harmony of mood which had been lacking in the Glazounov was here quite apparent and most effective.

The final ballet on the program was a revival of Piston's 'The Incredible Flutist,' a comic piece with some loud, boisterous music. The town is shown as siesta comes to an end, and the townspeople drift (or bound) onto the stage. A circus arrives with its many attractions, interrupting the proceedings. The flutist and one of the merchant's daughters arrange to meet at 8:00 that night.

They meet, as do the merchant's three other daughters and their respective lovers. The merchant himself has a rendezvous with the rich widow, who yields to his wooing. They embrace, but are discovered; she swoons. The flutist awakes her with his flute, and all the circus and townspeople join together for a happy and colorful finale.

The troupe caught the mood of the piece very well. Costanza scored again as the flutist, unquestionably walking off with the greatest laurels for the evening. Reeva Gibley as the widow, Carole Ann Pastore as the merchant's daughter, and many others gave outstanding performances.

One disappointing feature of the evening was the lighting, which often failed to fit in with the scene being portrayed on stage. The opening of 'Roots of Sand' provides a good example: The scene is a roadhouse. The orchestra wails a weary blues tune as the town drunk sways back and forth in front of the bar. What lighting is used? A harsh, bright yellow spot, totally out of keeping with the mood.

All in all, however, the evening was a triumph for all those participating, and pure enjoyment for the audience. We can only hope that we'll see more productions of this nature in the future.

## Northeastern management lectures to start Mon.

'The Management of Scientists,' a series of six lectures sponsored by Northeastern University, will begin Monday at 8:30 in the University's Alumni Auditorium.

Dr. Everett Mendelsohn, assistant professor of the history of science at Harvard, will begin the series with a lecture entitled 'The Changing Role of Science in Government, Industry, and the University.'

Subsequent lectures will be given by Dr. Royden Sanders, president of Sanders Associates; Dr. Norman Kaplan, associate professor of sociology at the University of Pennsylvania; Dr. Anne Roe, lecturer in education and research associate at Harvard; Dr. Herbert Shepard, professor of behavioral science at Case Institute of Technology; and Dr. Albert Siepert, deputy director, Launch Operations Center, National Aeronautics and Space Administration, Cape Canaveral.

## Work of MIT artists will be shown by TEN

An Art Show and Sale, sponsored by the Tech Engineering News, will open Friday to run for two days.

The exhibition, to be held in the lobby of Building 10 from 9:00 am to 5:00 pm, will include paintings, drawings, and sculpture submitted by students, alumni, and employees at MIT.

The show will give aspiring artists the chance to have a public viewing of their works and will also allow the public to purchase original art work at a relatively low price.

Prices will be set by the contributing artists. Profits from sales will go to the artists, with a five-per cent commission being retained by TEN to cover exhibition expenses.

Art works eligible for the show will be accepted at the Architecture Department headquarters until tomorrow.



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## 'The Black Death and Nuclear War'

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## the Limelites



**SYMPHONY HALL**  
Saturday, April 27  
at 8:30 P.M.

## movies . . .

# Tallulah's here again in 'Here Today'

By Charles Foster Ford

This week the Entertainment Department argued about whether to send me to the opening of Tallulah Bankhead's new vehicle, 'Here Today,' or to the dress rehearsal of 'The Braggart Warrior,' by Plautus, at the Loeb Drama Center. I lost. The ancient Roman play may not have been much funnier than Tallulah's, but it was probably newer.

We have here a novelist, who has suddenly fallen in love with the bright young daughter of an Old Boston Family. She loves him, but she is engaged to a Harvard Business School type, and her M'ma just would not understand. (If you hear echoes of 'The Philadelphia Story,' forget them. They're there, but they're awfully tired.)

Then we have the novelist's first wife, and her drinking partner and collaborator in writing plays. ("You are my intellectual companion, darling. I like to talk to you.") They barge into this vacationing clan of puritanical Bostonians, and by acting very, Very New York throw everybody into a tizzy. They queer the novelist's reputation as a gentleman; then they contrive to blacken the fiance's reputation in order to fix things; and then they . . .

But that would spoil things. (If you are reminded of 'The Man Who Came to Dinner,' for-

get it. George Oppenheimer, staged by Thomas Brock, designed by Scenic Back-grounds, Inc., associate producer Eleanor Peters, produced by Thomas Brock and Robert Carson.

Cast:  
Jeffrey Windrew . . . Jimmy O'Hayes  
Gertrude . . . Isabell Sandford  
Philip Graves . . . Peter Hobbs  
Claire Windrew . . . Patience Cleveland  
Mrs. Windrew . . . Estelle Winwood  
Stanley Dale . . . Richard Kendrick  
Mary Hilliard . . . Tallulah Bankhead  
Spencer Grant . . . John Granger

get it. George Oppenheimer is not another Kaufman nor a Hart, and no matter what she sounds like, Tallulah is not another Monty Woolley.)

There is, I must admit, a good act and a quarter here, though since they are the final act and a quarter, it is doubtful if many people will stay long enough to see them. (Tallulah fans and theatregoers over forty are expected, of course.) Until Tallu' decides to forge an inscription in an insurance textbook, to queer the engagement, everything is turgid and tired. After that point, there is a snap and a brightness to the dialogue, and vigor in its delivery. Those who go at all should resolve to stay to the end of Act Two, no matter what embarrassing foolishness they must endure until then.

There are a few people onstage who try bravely to give this tired old situation some sincere comic

acting. The author fights them every line of the way, but their attempt is admirable. True, Richard Kendrick as the 'intellectual companion,' Stanley Dale, delivers his many punch-lines as though he thought they were straight-lines, but then they sound as though they were meant to be straight-lines anyway, and perhaps he has given up trying.

As the novelist Philip Graves, Peter Hobbs tries often to be a dry, urbane, spectator type of wit, in on many of the jokes, and able to enjoy them. He sometimes enjoys himself more than the audience. His is perhaps the most ennobling struggle, for the playwright gives him no aide at all.

Much more satisfying is the work of Estelle Winwood, playing the Bostonian dowager, Mrs. Windrew. She has filled this theatrical vacuity with voice-tricks, with grimaces, with pauses and 'takes' which come closest to being the only plausible characterization all evening.

But the star is, of course, Tallulah. In that last act and a quarter, it is her timing of even the most inane lines which move the show along, just as in the first act it is her indifferent playing which palls. For, after all, Miss Bankhead is here playing an old familiar role, one she created in innumerable interviews and public appearances: The role of Tallulah Bankhead.

## Center seeks new way to teach college physics

The Science Teaching Center is attempting to evolve a new pattern for teaching college physics.

Dr. Nathaniel H. Frank, professor of physics and a member of the center, emphasizes that the significance of whole areas of classical physics has been changed when judged in the light of modern physical principles.

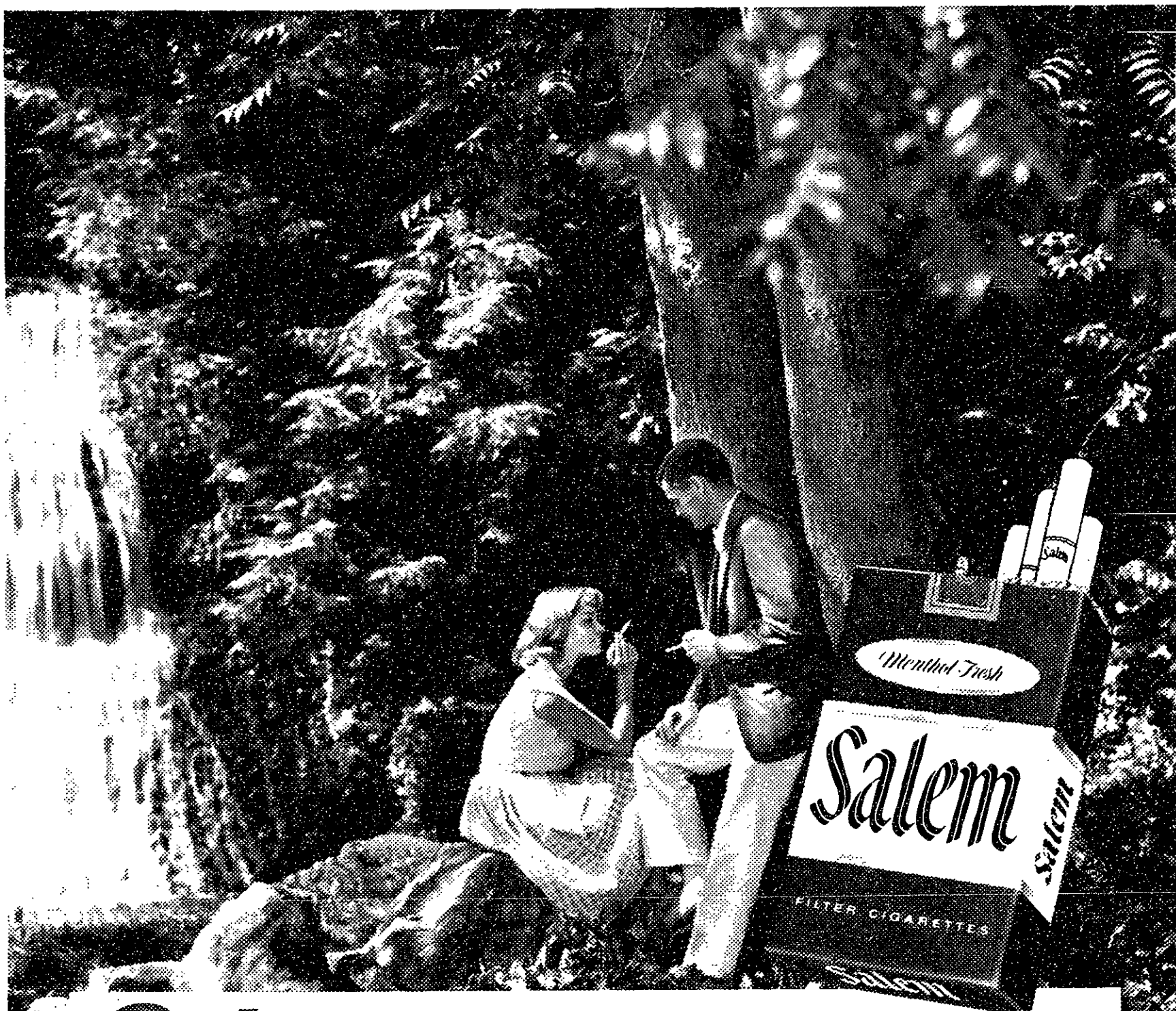
Dr. Frank states: "Any really significant change in the structure of college-level physics teaching must break entirely away from classical and traditional forms."

A new approach in the classroom, based on the picture of the physical world as drawn by modern physics, is needed. "It is necessary," says Frank, from time to time to re-examine traditional patterns of teaching to avoid diluting the content by simply adding new material."

The methods necessary to keep college physics up to date with contemporary research developments are of concern to the group at the center. "What is important," Dr. Frank states, "is the continuing injection of new principles and patterns of thought, rather than an attempt to follow short-term contributions from research. On this basis, the time lag should be no longer than the time it takes for the universal acceptance in the profession of such new principles and patterns of thought."

The center has already produced several films, two of which pertain to relativity, and a number of experiments. These films and experiments, because of their basic nature, are expected to be useful regardless of the final course forms which evolve. In addition, preliminary written material, some of which was used in connection with a freshman seminar last semester, has been prepared.

The Science Teaching Center, was established at MIT in 1960 under the directorship of Francis L. Friedman, professor of physics, who died last August. Its present director is Prof. Jerrold R. Zacharias.



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## Making the Scene

### MUSIC

New England Conservatory — piano ensemble, Jordan Hall, 8:30, April 24; Bach Sonata in G major, Couperin's 'Deux Musettes,' Brahms' Variations on a Theme of Haydn, Chopin's Sonata; free.

Miriam Makeba — Kresge Auditorium, 8:30, April 27; \$2.50, \$2.75, \$3.00. Ferruccio Tagliavini — tenor, April 24, 8:30, Harvard Square Theatre; \$5.00, \$4.00, \$3.00.

New England Conservatory Symphony Orchestra — Jordan Hall, April 23, 8:30; 'Catacoustical Measures' by Daniel Pinkham, Strauss's 'Le Bourgeois Gentilhomme Suite,' Ravel's 'La Valse,' Mendelssohn's 'Overture to the Fairy Tale of the Beautiful Melusina.'

Patrick O'Hagan — tenor, April 26, Symphony Hall; \$4.50, \$3.50, \$2.50. The Limelighters — April 27, Symphony Hall; \$4.75, \$3.75, \$2.75.

New England Chamber Players — April 24, Jordan Hall, 3:00; Schubert's 'Deux pieces en forme de Canon,' Paganini's 'Pastorale.'

Gardner Museum — Inger Wikstrom, pianist, April 28, 3:00; works of Grieg, Nielsen, Schubert. (The Symphony Orchestra of Boston—

S	M	T	W	T	F	S
28	29	30	1	2	3	4
5	6	7				

April 30, 8:30, Jordan Hall; Dvorak's Symphony No. 6, Piston's 'Variations,' Kodaly's 'Psa Imus Hungaricus'; \$3.00, \$2.00, \$1.00. Boston Pops — April 30, Symphony Hall, 8:30, matinee Sun., 3:00; \$3.50, \$3.00, \$2.50, \$1.50, \$1.00.

### THEATRE

Dramashop — 'The Trial,' Kresge Little Theatre, April 24-27, 8:30; \$1.50.

Loeb Drama Center — 'The Braggart Warrior,' April 24-27, 8:30. Harvard Musical Theatre Group — 'Babel,' Lowell House, April 24-26, 8:30, April 27, 7:30, 9:30.

LSC Classics Series — 'Rules of the Game,' April 26, Kresge Auditorium, 6:30, 9:00. On the eve of World War II, Jean Renoir directed this mordant sophisticated, brilliantly funny tragedy of a man of feeling in a society that had no use for it. France 1939.

LSC Entertainment Series — 'Sweet Bird of Youth,' April 27, Room 10-250, 5:15, 7:30, 9:45. Paul Newman, Ger-

aldine Page, Ed Begley. Based on Tennessee Williams' successful Broadway play about an aging actress who falls in love with a young man and the complications that arise when he falls in love with a younger woman.

### LECTURES

Godkin Lectures — Clark Kerr, president of University of California, 'The Uses of the University,' Sanders Theater, 8:30, April 24, 'The Realities of the Federal Grant University,' April 25, 'The Future of the City of the Intellect.'

Harvard Law School Forum — April 26, Sanders Theater, 8:30; 'The American Cinema as an Art Form,' David Susskind, Shelley Winters; \$1.00.

Clayton Lectures — Tufts University, Cohen Auditorium, 8:30, J. William Fulbright, chairman of the Senate Committee on Foreign Relations, 'Prospects for the West,' April 23, 'Russia and the West,' April 24, 'A Concert of Free Nations,' May 1, 'The American Agenda.'

'The Management of Scientists' — Northeastern University, Alumni Auditorium, April 29, 8:30, Dr. Everett Mendelsohn, Assistant Professor of the history of science, Harvard; 'The Changing Role of Science in Government, Industry, and the University.'

'Cinema as Art and Technology' — Department of Humanities, April 29, 8:00, Room 10-250, Prof. Robert Gessner, New York University.

'The Black Death and Nuclear War' — April 30, 8:30, Prof. William L. Langer, Harvard, Jimmy Fund Auditorium; free.

### MISCELLANEOUS

Art Show and Sale — Building 10, April 26-27, 9-5; paintings, drawings, and sculpture by members of the MIT community.

APQ Carnival — April 27, Rockwell

Cage, 7:30-12:00, free admission.

### NEXT WEEK MUSIC

New England Conservatory — Reginald Hachey and Roland Nadeau, pianists, Jordan Hall, May 1, 8:30; Saeger's Toccata and Fugue for Two Pianos, Poulenc's Sonata for Two Pianos, Bach's Concerto in F minor and Concerto in C minor for Two Pianos; free.

Ray Charles — Donnelly Memorial, May 4, 8:00, 10:30; \$2.50, \$3.00, \$4.00, \$5.00.

Gardner Museum — New England Conservatory Tour Chorus, May 5, 3:00.

Boston Youth Symphony Orchestra — May 5, 3:00, Jordan Hall; Mozart's Piano Concerto in C Minor, and Clarinet Concerto in A Major, Rossini's Overture to 'La Gazza Ladra,' Bruckner's Symphony in E-flat Major, Goodman's Canon for Percussion, Rimsky Korsakov's 'Capriccio Espagnol.'

'Tech Night at the Pops' — May 5, Symphony Hall, 8:30.

### LECTURES

'The Portable Nash' — Ogden Nash, Kresge Auditorium, May 1, 8:00.

'The Management of Scientists' — Northeastern University, Alumni Auditorium, 8:30, May 2, Dr. Eryzema Sanders, 'Interface Problems Between Scientists and Others in Technically Oriented Companies,' May 6, Dr. Norman Kaplan, 'Organization Will it Choke or Promote the Growth of Scientists?'

Clayton Lectures — Tufts University, May 1, Cohen Auditorium, 8:30, J. William Fulbright, 'The American Agenda.'

Ford Hall Forum — May 5, Jordan Hall, 8:00, Prof. H. Stuart Hughes, 'The Politics of Peace.'

### MISCELLANEOUS

International Student Association — Fun Fair, May 4, noon to midnight.

## WTBS schedule

The following is WTBS's revised program schedule as of April 1. WTBS broadcasts on 88.1 megacycles FM, 640 kilocycles AM.

### WEDNESDAY

8 am—Rise and Shine

News at 8:30 and 9:30

9:45—Sign Off

Music Library on Audio Lines

5—Music USA

6—News, The Joe Martinson

8—Departures in Music (New Classical Releases)

10—Masterworks

11:50—News

12—Jazz at Mid-night

1:30—Sign Off

THURSDAY

8—Rise & Shine

News at 8:30 and 9:30

9:45—Sign Off

Music Library on Audio Lines

5—Music USA

6—News, Tempo

7—Ramblin' Round

8:45—Limelight Review

9—Evening at the Opera

11:50—News

12—Jazz at Mid-night

1:30—Sign Off

FRIDAY

8—Rise & Shine

News at 8:30 and 9:30

9:45—Sign Off

Music Library on Audio Lines

5—T.G.I.F.

6—News, Stairway to the stars

7—Jazz Special

9—Raising a Ruckus To-night — Folk Music from Cafe Yana

10—News, Night Owl (Telephone Requests)

11:50—News

12—Night Owl

2—News

Sign Off

### SATURDAY

3—Rock and Roll Memory

Time

5—Jazz Spotlight

7—Theatre Tonight

8:50—News

9—Night Owl (Telephone Requests)

11:50—News

12—Night Owl

2—News

Sign Off

SUNDAY

4—The World of Sound

5—This Is the Blues

6—Music at MIT

7—Omnibus

9—News, Classroom Concert

11:50—News

12—Jazz at Mid-night

1:30—Sign Off

MONDAY

8—Rise & Shine

News at 8:30 and 9:30

9:45—Sign Off

Music Library on Audio Lines

5—Perloo, Stomp and Glee

6—News, The John C. Heine Show

8—Masterworks

10—UN News Review, Masterworks

11:50—News

12—Jazz at Mid-night

1:30—Sign Off

TUESDAY

8—Rise & Shine

News at 8:30 and 9:30

9:45—Sign Off

Music Library on Audio Lines

5—Like Young

6—News, Like Young

7—Folkside

8:30—The Arab Club Show

9—Masterworks

11:50—News

12—Jazz at Mid-night

1:30—Sign Off

## Clark Kerr to speak for Godkin Lectures

Harvard's annual Godkin Lectures will be given today and tomorrow at 8:00 in the Sanders Theater, Cambridge.

Clark Kerr, president of the University of California, will speak on 'The Use of the University.' His topics will be: tonight, 'The Realities of the Federal Grant University;' tomorrow, 'The Future of the City of the Intellect.'

The Godkin Lectures were founded at Harvard in 1903 in memory of E. L. Godkin, the British-American journalist who founded The Nation. The lectures discuss aspects of 'The Essentials of Free Government and the Duties of the Citizen.'

**MAETER KEANE**  
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LIMITED ENGAGEMENT  
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"BRILLIANT PRODUCTION"  
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**HARVARD SQ.** UN 4-4580

Tonight at 8:30  
Concert by  
**Ferruccio Tagliavini**  
tenor

Resuming Tomorrow

"To Kill a Mockingbird"

2:00, 4:30, 7:00, 9:20

**BRATTLE SQ.** TR 6-4226

"CLEO FROM 5 TO 7"

plus Short Subjects  
5:30, 7:30, 9:30

Thurs.-Fri.-Sat.

"THE RED AND THE BLACK"

5:15, 7:30, 9:45

Saturday Matinee at 3:00

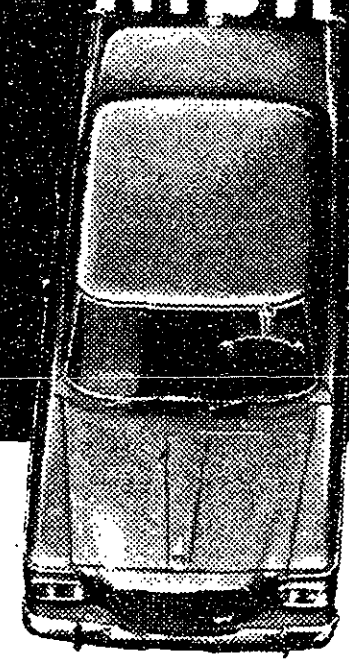
Starting Sunday: Bunuel's

"THE CRIMINAL LIFE OF ARCHIBALD DE LA CRUZ"

5:30, 7:30, 9:30

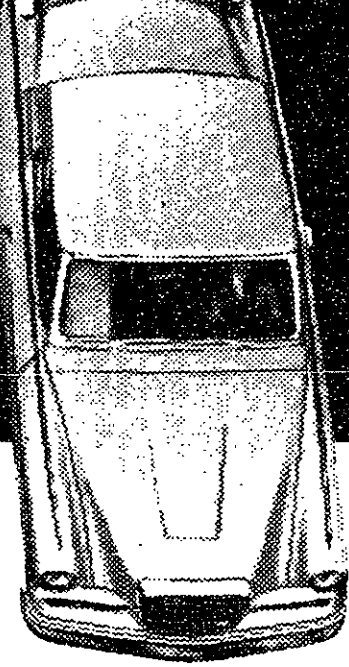
Sunday Matinee at 3:30

mbh  
**132**  
mbh  
mbh  
**140**  
mbh



Two New Cars are Born

Avanti-inspired...  
Bonneville-tested!  
**R2 SUPER LARK**  
**R2 SUPER HAWK**



We designed two new cars—and built a lot of our record-setting Avanti into them: supercharged R2 engines... heavy duty springs and shock absorbers, plus anti-sway bars, front and rear...trac rods, rear...racing type disc brakes, the safest known and ours alone.

We named them R2 Super Lark and R2 Super Hawk and had Andy Granatelli

take them out to the infamous Bonneville Salt Flats for final performance and endurance tests.

We could scarcely believe the results, but the official U.S. Auto Club timers confirmed them: R2 Super Lark—132 mph! R2 Super Hawk—140 mph! Two-way averages—under the most punishing weather and surface conditions. That kind of performance, combined

with their gentle 'round-town manners, told us these cars were ready. R2 Super Lark and R2 Super Hawk are now available on special order at your Studebaker dealer's.

Flash: front seat safety belts now come factory-installed on every car—another advance from Studebaker.



## Singer Makeba to give 'Crossroads' benefit

Folksinger Miriam Makeba will appear this Saturday night at Kresge Auditorium at 8:30.

The performance, sponsored by Crossroads Africa, will benefit MIT's two representatives to the Crossroads program this year, Bill Samuels '65 and Mike Lifschitz '63.

Miss Makeba, formerly with Harry Belafonte, will present a program of African folk songs, including the Xosa wedding, or 'Click,' song and the song of the lion hunt, 'Wimowai.'

Tickets are now on sale in the lobby of Building 10. Prices are \$2.50, \$2.75, \$3.00.

## movies...

# G & S 'Sorcerer,' opera at Agassiz

By Charles Foster Ford

'The Sorcerer' is an excellent example of what should be done with Gilbert & Sullivan. The usual student production of G&S is a pallid parody of d'Oyly Carte, with voices inadequate to the task. The only productions I have enjoyed were those few which took a wholly original approach, and refused to be pretentious. Dave Mills' staging of 'The Sorcerer' shows just such originality.

This was the first full length comic opera which Gilbert & Sullivan wrote together, and it is a

loose and flabby example of their art. The first act seems terribly long because most of it goes by in static inactivity. Also, there are several places where comic ideas are thrown away in one sequence, where better craftsmanship would have seen material for whole new plays in them. Sir Marmaduke and Lady Sangazure moan that they never married because they were too polite to admit their passion, but after one song the possibilities are dropped. Dr. Daly discourses on the sex appeal he had in his youth, yet none of these impassioned young ladies appear in act two. Gilbert had barely begun to write.

But the triumph of the evening is the staging. Dave Mills has come up with a kind of theatrical prestidigitation in which the staging is quicker than the ear. His cast is full of nineteenth century poses and attitudes, out of some ancient handbook for modern dance. The word 'stylized' is pale in their description. Instead of battling his singers' natural tendency to "stand and deliver" in rather stiff postures, he has used this frustrating handicap as the basis of his approach. The results are hilarious. In fact, the careful composition of gestures and attitudes is so well done that, in at least two cases, they call attention away from quite atrocious voices. There is too much fun to watch for the ear to be annoyed.

This technique comes off best, of course, when executed by good, supple actors with decent voices. Melanie Adams, for instance, opens the show with a delightful tale of her sad love for Dr. Daly,

**THE SORCERER**, a comic opera written by W. S. Gilbert, composed by Arthur Sullivan; produced by Ernest P. Sachs; stage director, David H. Mills; music director, Thomas R. Walker; scenery by John Freedman; costumes by Lewis H. Smith; lighting by Jonathan Bingham. At Agassiz Theatre, April 24 through 27.

**CAST:**  
Constance ..... Melanie Adams  
Mrs. Parlett ..... Miranda Sampson  
Doctor Daly ..... Joel Martin  
Lady Sangazure ..... Susan Bly  
Aline ..... Carolyn W. Kimball  
Sir Marmaduke Poindextre ..... Lucian Russell  
Alexis ..... H. Thomas Bell  
Counsel ..... Philip H. Hartman  
Page ..... Jeffrey Cobb  
John Wellington Wells ..... Peter L. Skolnik

the vicar, followed by Joel Martin's vicar musing on his lost youth. Miss Adams looks like a semi-successful ballerina, Mr. Martin like a plump, old-school Shakespearian doing a wistful Hamlet. They open the long first act with a promise of visual delights which the rest of the cast works quite hard to fulfill.

The plot is set into motion by H. Thomas Bell as Alexis. (His voice is terrible, but he is, as several young ladies remarked, beautiful, and his gesture-patterns are so well executed that he will be forgiven anything.) It is a simple variation of the love potion theme from 'Midsummer Night's Dream,' except that instead of royalty in love with mortals, we see nobility in love with commoners. The modern equivalent of Puck is J. Wellington Wells, a sorcerer by trade. (Gee, dad, the title!) Peter Skolnik plays him, in appearance and movements, as a delightful old Mad Hatter.

John Freedman's sets are full of the yellow-green of happy spring, and Lewis Smith's costumes are the colorful blossoms of that season. (Constance, with a change of hat, literally bursts into bloom in act two.) Everything about the show is delightful, except the music. There are many bad voices, a lot of bad tempos, many wrong notes. But, thanks to Dave Mills, even the orchestra itself is too busy watching . . . and laughing . . . to notice, and only the purists could care.

**Cleaning - Pressing  
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## Movie Schedule

Wednesday, April 24, through Tuesday April 30 (Unless otherwise stated, the Sunday schedule is the same as the weekday schedule except that no movies are shown before 1:00 pm.)

**ASTOR** - 'The Longest Day,' 8:15; Wednesday, Saturday, Sunday, 2:30; Sunday, 7:30.

**BEACON HILL** - 'Miracle of the White Stallions,' 10:00, 12:00, 2:30, 4:00, 6:00, 8:00, 10:00; Sunday, 1:30, 3:30, 5:30, 7:30, 9:30.

**BOSTON CINERAMA** - 'How the West Was Won,' evenings, 8:30, matinee Sunday, 4:45.

**BRATTLE** - 'Cleo from 5 to 7' plus short subjects, 5:30, 7:30, 9:30; Thursday, Friday, Saturday, 'The Red and the Black,' 5:15, 7:30, 9:45; matinee Saturday at 3:00. Starting Sunday, Bunuel's 'The Criminal Life of Archibaldo de la Cruz,' Sunday at 3:30, 5:30, 7:30, 9:30, weekdays 5:30, 7:30, 9:30.

**CAPRI** - 'David and Lisa,' 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00.

**COOLIDGE CORNER** - 'To Kill a Mockingbird,' 1:50, 8:30; Saturday, Sunday, 2:00, 5:00, 8:00.

**ENTER** - 'Playboy of the Western World,' 2:10, 3:55, 5:45, 7:30, 9:20.

**FENWAY** - 'Sundays and Cybele,' (no times available).

**GARY** - 'Lawrence of Arabia,' evenings, 8:00; matinee Sunday, 2:00.

**HARVARD SQUARE** - 'Tonight at 8:30,' concert by Ferruccio Tagliavini, tenor. Resuming tomorrow: 'To Kill a Mockingbird,' shows 2:00, 4:30, 7:00, 9:30.

**KEITH MEMORIAL** - 'The Birds,' 9:50, 12:10, 2:30, 4:50, 7:10, 9:30; Sunday, 1:00, 3:05, 5:12, 7:18, 9:24.

**MAYFLOWER** - 'Man from the Diner's Club,' 11:15, 2:35, 5:55, 9:15; Sunday, 2:30, 5:50, 9:10; 'Fury of the Pagans,' 9:45, 1:00, 4:20, 7:40; Sunday, 1:00, 4:15, 7:35.

**MIT** - Friday, 'Rules of the Game,' Kresge Auditorium, 6:30, 9:00; Saturday, 'Sweet Bird of Youth,' Room 10-250, 5:15, 7:30, 9:45.

**MUSIC HALL** - 'The Ugly American,' 10:00, 12:15, 2:35, 5:00, 7:20, 9:40; Sunday, 1:00, 3:05, 5:15, 7:25, 9:35.

**PARAMOUNT** - 'Days of Wine and Roses,' 10:20, 1:00, 3:45, 6:30, 9:15.

**SAXON** - 'Mutiny on the Bounty,' evenings, 8:15, matinee 2:15.

**WELLESLEY COMMUNITY PLAYHOUSE** - through April 27, 'A Child is Waiting,' 'Watch Your Stern,' 7:45; starting April 28, 'The Touch of Mink,' 'Scream of Fear,' 7:45.

**UPTOWN** - 'Diamond Head,' 11:00, 2:30, 6:10, 9:50; Sunday, 2:40, 6:15, 9:50; 'Waltz of the Toreadors,' 12:40, 4:20, 7:55; Sunday, 1:00, 4:30, 8:00.

## Theatre Schedule

**CHARLES PLAYHOUSE** - 'Candida,' Wednesday-Friday, 8:30; Saturday, 5:30, 9:00; Sunday, 8:00, 9:00.

**IMAGE** - 'The Master Builder,' Tuesday-Friday, 8:30; Saturday, 8:00, 9:00.

**LOEB DRAMA CENTER** - 'The Bragart Warrior,' April 23-27, 8:30.

**LOWELL HOUSE** - Harvard Musical Theatre Group, 'Babel,' April 24-26, 8:30, April 27, 2:30, 9:30.

**MIT DRAMASHOP** - 'The Trial,' Kresge Little Theatre, April 24-27, 8:30.

**WILBUR** - 'Here Today,' evenings, 8:30.

## Fellowships Draw Scholars

Doctoral fellowships providing tuition plus stipends of up to \$6,000 a year have been set up at the School of Industrial Management to attract men now in business and government into management teaching and research.

Dean Howard W. Johnson of the management school said the fellowships, supported by the Alfred P. Sloan Foundation, are part of an effort to increase the nation's reservoir of Ph.D.-level scholars for teaching and research in management. Candidates must hold the master's degree and have behind them several years of significant experience in business government.

## MIT DRAMASHOP

Presents Franz Kafka's

## THE TRIAL

Adapted and directed by  
Joseph Everingham

Kresge Auditorium  
Little Theatre

APRIL 24-27, 8:30 pm

All seats reserved \$1.50

Box office UN 4-6900 ext. 2910




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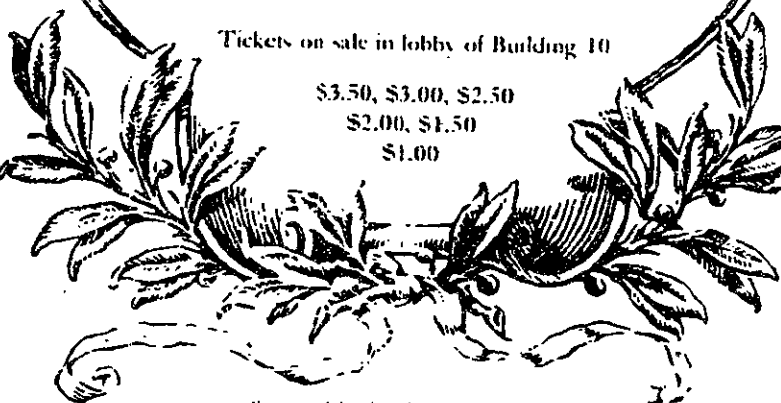


May 5  
at 8:30 p.m.

# TECH NIGHT AT THE POPS

Tickets on sale in lobby of Building 10

\$3.50, \$3.00, \$2.50  
\$2.00, \$1.50  
\$1.00



Sponsored by the MIT Baitn Society

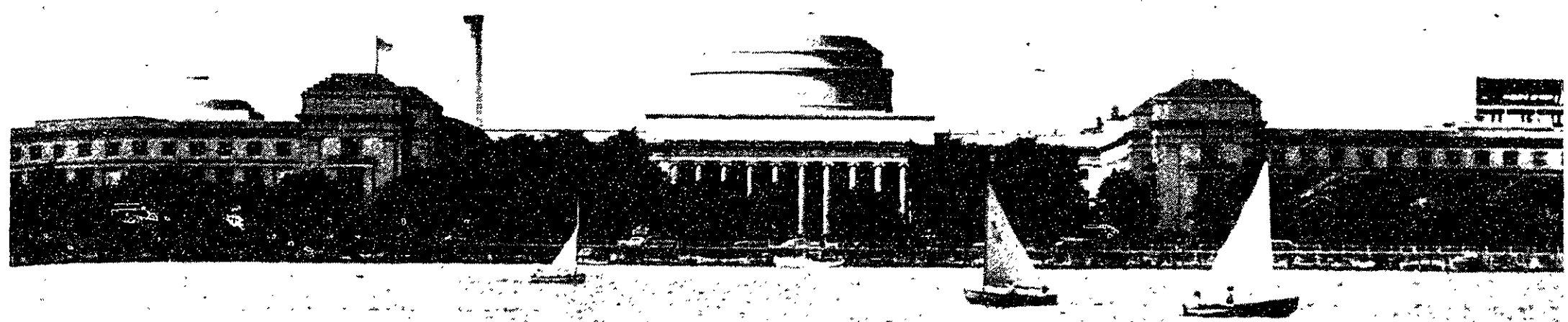


# MIT welcomes community to Open House

THE TECH

WEDNESDAY, APRIL 24, 1963

Page 9



## President Stratton greets visitors at Open House

Dr. Julius A. Stratton, president of the corporation, extends the following welcome to Open House visitors:

On behalf of the students and faculty of MIT, I wish to welcome you most warmly to our twenty-second Institute Open House. The program that has been arranged for you was planned and developed largely by a group of undergraduates with the advice of a faculty committee representing each of our academic departments. It is intended to give you an opportunity to see a variety of our facilities for teaching and research and to catch some of the flavor of our educational programs in engineering, science, architecture, the humanities, and industrial management. The schedule also includes many exhibits and presentations of student extracurricular activities, including athletics, which are an integral part of our campus life. The purpose of the Open House is to provide an occasion on which all our friends and neighbors may come to know us a little better, and the program has been designed with many different interests in mind. I hope very much you will have a most enjoyable afternoon.

## 5 sports events contribute to Open House program

By Cliff Weinstein  
Five athletic teams may be seen in action on the MIT home fields this Saturday.

**Track**  
The trackmen will begin a triangular meet with Bowdoin and New Hampshire on the outdoor fields at 12:30 pm. Tech's cindermen are in the midst of one of their best seasons ever, and are coming from a 95-40 romp over Tufts in their last outing.

**Tennis**  
On the tennis courts behind Burton and Baker Houses, MIT's netmen will compete against the University of Massachusetts, starting at 1:30 pm. MIT boasts a solid tennis squad with a 6-4 record and a three-meet winning streak going into Saturday's contest. Number-one player Bent Aasmaes '63 is the singles champion of the Eastern Collegiate Athletic Conference tennis tournament.

**Rugby**  
MIT's Rugby Club will meet Holy Cross at 1:30 pm. This contest should be of interest both to those who are familiar with the British version of football and to those who know nothing about it; there are 52 million Britons who claim that this is the way the game should be played. The MIT squad has won all of its spring contests to date.

**Baseball**  
A Tech team can be seen competing in the national pastime starting at 2:00 pm against Middlebury. The Tech nine has had its troubles this year, sporting a 2-10 record, but the last two contests were lost in the ninth inning, and the baseball team will attempt to provide a good show for the large Open House crowd.

**Lacrosse**  
Finally, the MIT lacrosse team will meet Amherst at 2:00 pm. Lacrosse is a rough and rugged sport, and an excellent spectator sport. The Tech stickmen have lost all eight of their contests to date.

## Arrows to show tour routes

## Open House visitors will see over 150 exhibits

By John Montanus  
At MIT's first Open House, in 1922, one of the newest scientific devices on display was an X-ray tube, and humming steam turbines attracted the attention of several hundred visitors.

Saturday, from noon to 5:00 pm, an estimated 25,000 visitors to this year's Open House will see a nuclear reactor, space probe satellites and capsules, electron microscopes, lasers, and a machine called Dovo, which synthesizes human speech.

Also on exhibit will be electronic computers (some of which will challenge visitors in various games of strategy, such as tic tac toe), a new technique of food preservation called freeze-drying, and a recently developed method of removing the salt from sea water.

**150 exhibits**  
The purpose of Open House is to show what modern education and research look like in engineering, science, architecture, the humanities, and industrial management. More than 150 exhibits in all of

the Institute's 21 departments will be on display. These will give a view of the major research facilities and of the smaller labs, where an idea is pursued, tested, and developed.

**Six tours**  
Six different tour routes will be marked by six different-colored series of arrows. Student guides will be posted along the way to offer directions and answer questions. Signs along the route will indicate directions to exhibits listed as off a given tour number.

Total coverage is quite extensive, so visitors will probably

have to limit their excursions and cover the most interesting tours first. Not included on any of the tours will be the day's athletic events and the extracurricular activities; many organizations will hold open houses or present special exhibits.

Open House is a student-organized program. The special Open House Committee is headed by co-chairmen Robert L. Blumberg '64 and C. Bert Knight '64. The committee is aided by the Faculty Administration Advisory Committee and many volunteer student workers and guides.

## Kresge, Baker, chapel show modern architecture

Besides the classic architecture of the main buildings surrounding the Great Court, many other architectural styles are represented at MIT. Three of the more contemporary buildings on campus are Kresge Auditorium, Baker House, and the Chapel.

The most unusual feature of Kresge Auditorium, completed in 1955, is its domed roof, or shell—a curved slab of concrete, triangular in shape. The dome is not structurally joined to the rest of the building. The tops of interior walls are separated from the dome by as much as four inches, the space being filled by rubber gaskets. The steel window frames are not joined to the dome either, but to metal angle slip joints which permit slight movement between them.

**Thinner than eggshell**  
The concrete shell is only 3½ inches thick—thinner in proportion to its area than the shell of an egg. Newly installed is a covering of sheet lead—one-eighth of an inch thick. The lead cover replaces an acrylic and orestone

mixture which was removed because of maintenance problems.

Below the main auditorium is the Little Theater, seating 214, for chamber music, conferences and small-scale dramatic productions. It also has facilities for television broadcasting.

**Serpentine-shaped dorm**  
Designed by the Finnish architect Alvar Aalto during his stay as visiting professor of architecture, 1947-49, Baker House, the serpentine-shaped dormitory just southwest of Kresge, has been in use for 14 years.

The glass-enclosed dining room which extends from the building proper toward Memorial Drive was described by Aalto as the "focus" of the building's exterior design. It is lighted by numerous specially-designed round skylights and lamps mounted above the skylights for use after dark.

The dormitory was named after Dr. Everett Moore Baker, Dean of Students, 1947-50, who was killed in an airplane crash in Egypt in August, 1950.

The windowless cylindrical chapel was dedicated May 8, 1955. Designed by Eero Saarinen to meet the needs of all faiths, the chapel is one of the few in the country to be used for regular services by Catholics, Protestants, and Jews alike.

A solid brick cylinder, the chapel stands within a water-filled moat next to Kresge Auditorium. Structurally, there is complete separation of interior from exterior. The building amounts to a platform for the congregation and for the altar. The walls are structurally independent of the floor.

Cut into the bottom of the chapel cylinder are irregularly shaped and irregularly spaced arches. Light is reflected from the water of the moat into the interior of chapel through these arches.

## Students will serve refreshments

Refreshments will be served continuously during Open House by several student groups. The Association of Women Students will serve punch and cookies in the Margaret Cheney Room, 3-310.

## Perception exhibit to show series of optical illusions

Through the participation of 11 academic departments, the Research Laboratory of Electronics conducts research in three broad categories: general physics and engineering, plasma dynamics, and communication sciences. Four laboratories will conduct demonstrations during Open House: communications biophysics (Room 20A-204), sensory aids

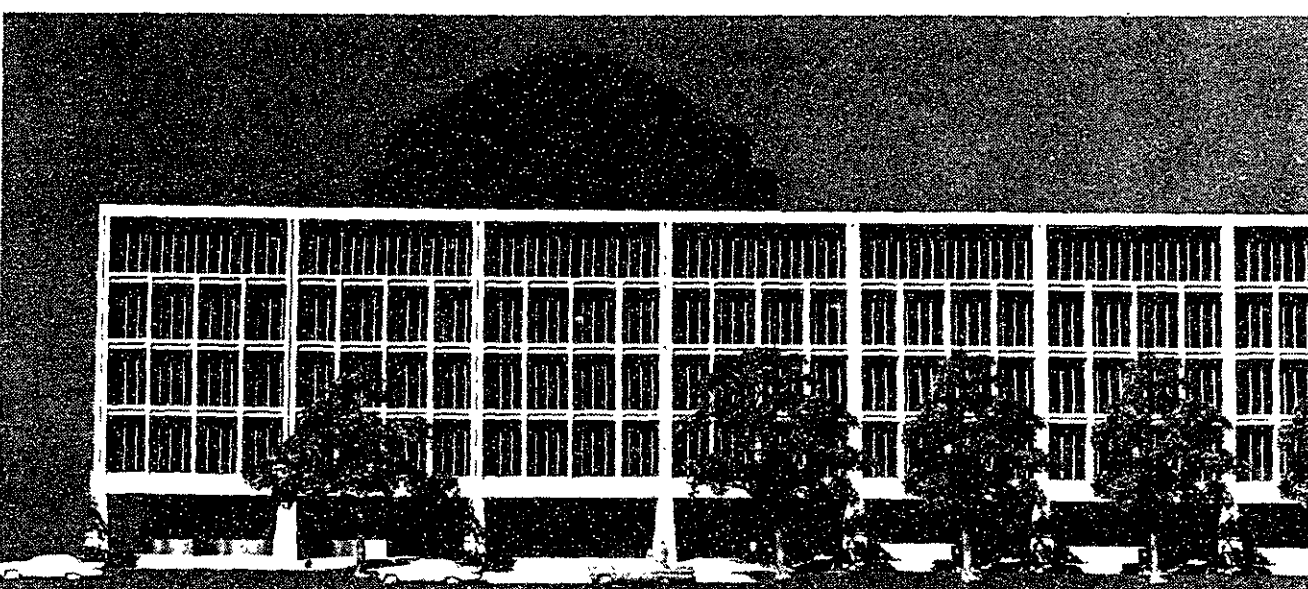
Beaver Key, the junior honorary society, will be serving Cokes and popcorn in Room 7-106.

The Non-Resident Student Association will also serve refreshments at its headquarters, 318 Memorial Drive.

(Room 20A-219), picture processing (Room 20A-221), and statistical communication (Room 26-305).

The demonstration by Prof. Murray Eden, in Room 20A-206, will include visitors' participation. Prof. Eden's study of human perception will test visitors' judgments concerning a series of optical illusions.

## Materials Center largest construction project



The Center for Materials Science and Engineering is under construction in the area behind the Great Dome. The new building, to cost six million dollars, will serve as the focus for research in chemical and solid-state physics, molecular science and engineering, metallurgy, and materials science and engineering.

# Open House guests view educa

## Civil Engineering displays effects of H-bomb blasts

**1** Civil engineering deals with the conception, design, and construction of facilities directed toward the improvement of the human environment. The Department of Civil Engineering carries on basic research concerning the behavior of materials such as soil, steel, fluids, plastics, and many other natural and artificial substances. Some of these research activities will be on display at the Open House.

In the Soil Engineering Laboratory, Room 1-350, examples will be shown of how one can add chemicals to dirt in order to construct roads or houses. Demonstrations of ultrasonic waves in water and quicksand as well as a display of what happens to buried structures when subjected to H-bomb blasts will be presented.

Many exhibits and demonstrations will be shown in the hydrodynamics laboratory in Building 48, a major unit for experimental research in fluid mechanics, coastal engineering, and water resources.

The techniques of fabricating and testing small models of building-type structures will be illustrated in the laboratory for structural models, Rooms 1-235 and 1-241.

The department's computer facility in Room 1-090, is equipped with an IBM 1620 computer. The use of the computer in structures and materials engineering and urban transportation planning will be illustrated.

## ME Dept. to show control devices, analog computer, programmed labs

**2** Mechanical engineering is concerned with ideas and means to produce power; to make, build, or shape materials and machines for useful purposes; and to control devices and processes. It draws heavily on the basic sciences, mathematics, and the engineering sciences.

The Department of Mechanical Engineering thus conducts research in many and varied fields. For Open House, it has tried to present a sampling of these areas.

In the Surface Laboratory, in Room 35-033, lubrication systems for use in space environments will be shown. In Room 1-

307, the Materials Testing Laboratory, detreminations of tensile strength will be featured.

The Materials Processing Laboratory will present demonstrations of machining-tool experiments. Remote manipulative controls systems will be on display in Room 3-365; in Room 3-355 an analog computer and an experimental study of programmed lab instruction will be shown.

Cutaways of various engines will be on display on the first floor of Building 31. The Engineering Projects Laboratory, in Room 3-143, will feature an exhibit of student projects.

Exhibits in Room 1-223 will deal with experimental stress analysis, and will include a polariscope and a strain gauge.

## Metallurgy Department

### Students will run foundry

**3** The Metallurgy Department encompasses the sciences of metallurgy itself and of materials science.

Metallurgy can be described as the science concerning the production, structure, and properties of metals. Materials science treats of the structure, properties, and behavior of materials of all kinds.

The Department of Metallurgy will display several facets of its studies at the Open House. One exhibit will be a superconducting magnet (Room 8-110), which permits electric current to flow within it with no resistance, and

is thus potentially capable of producing higher magnetic fields than have ever been achieved before.

The foundry (fourth floor, Building 35) will be in continuous operation and will be the site of student demonstrations of various techniques used in casting metal.

Other exhibits will include: TV-microscopy as used in teaching metallurgy (8-436), electronic materials (8-241), structure of meteorites (8-102), microscopic changes in the structure of materials (8-436), and solidification of materials (fourth floor, Building 35).

## Department of Architecture, first in nation, to present students' models and drawings

**4** As the first institution to organize formal architectural education in the United States, MIT has steadily held to the belief that the basic prerequisites for the study of architecture are sympathy for human institutions, esthetic perception, and the ability to understand engineering methods.

The same precepts have governed the policy of the Department of City and Regional Planning—the second in the United States.

During the Open House program, the School of Architecture and Planning will present a display of designs by architecture students.

These lifelike models and drawings, on the fourth floor of Building 7, must be constructed before an architect's ideas pass into steel and concrete.

## EE exhibits strobe light, computers

**6** Electrical engineering includes two major areas: communication sciences—dealing with the communication between man and man, or man and machine, or machine and machine; and electromagnetic energy conversion—the harnessing of electrical energy to the tasks of mankind.

Ten major exhibits will highlight the activities of the Department of Electrical Engineering,

the largest of all departments at MIT.

Two exhibits will be set up in Building 10. The Electromagnetic Laboratory (Room 10-050) will have demonstrations of forces and fields, in which a magnetic induction field will force a conducting ring to jump abruptly into the air, and demonstrations of microwave communications.

Stroboscopic lamps will be on exhibition on the balcony of Building 10. The lamps will flash a microsecond burst of light several hundred feet down a corridor and reflect it to measure the speed of light.

The Stroboscopic Measurements Laboratory (Room 4-405) will have a permanent exhibit on high-speed photometry in addition to numerous demonstrations on the effects of stroboscopic light and various flash lamps.

An analog computer will simulate a space navigational problem in the Experimental Electronics Laboratory (Room 3-402). In addition, a tic-tac-toe machine, a wristwatch calibrator, and a delayed-speech demonstration will be shown.

The Computer Research Laboratories (Room 26-260) will feature the TXO and PDP-1 computers. The electronic brains will play space war, three-dimensional tic tac toe, and mouse in the maze.

Student activities will be shown in the Systems Laboratory (Room 32-114).

Other open laboratories will include the Electronic circuits and Signals Laboratory (Room 3-409)

## Physics to exhibit high-energy

**8** The progress of physics during the first half of the twentieth century has been unprecedented in the history of science. The great advance of quantum theory and the theory of relativity have enabled physics to move far beyond conventional areas.

These advances have led to a remarkably complete understanding of the structure of atoms, molecules, and bulk matter; of electronics; of gas discharges; and of

## Guide for visitors

### The maze of

Numbers are the key to numbered. Departments are referred to by their names. Numbers are a standard guage of MIT.

In fact, students themselves number as part of the Institute's processing records by computer.

Every room at MIT is numbered, such as 10-250. The hyphen give the number of the digit after the hyphen gives the ing digits indicate the room.

Academic departments, for the convenience of Open House, numbers have been inset into department activities. The code

Aeronautics and Astronautics	16	Math
Architecture	4	Met
Biology	7	Met
Chemical Engineering	10	Met
Chemistry	5	Met
Civil Engineering	1	Mode
Economics and Social Science	14	Nam
Electrical Engineering	6	Ne
Geology and Geophysics	12	Nuc
Humanities	21	Nut
Industrial Management	15	Phys

## Chemistry to show undergraduate labor

**5** The Department of Chemistry program in chemistry as well for students in other courses study and research in physical, and analytical chemistry.

The department will present its lab there will be an exhibit in Room 4-405 of spectroscopic techniques to the and properties of compounds, especially similar compounds.

The second phase of the program graduate physical and analytic chemistry 104 and 2-105.

## Biology Department

### DNA model to

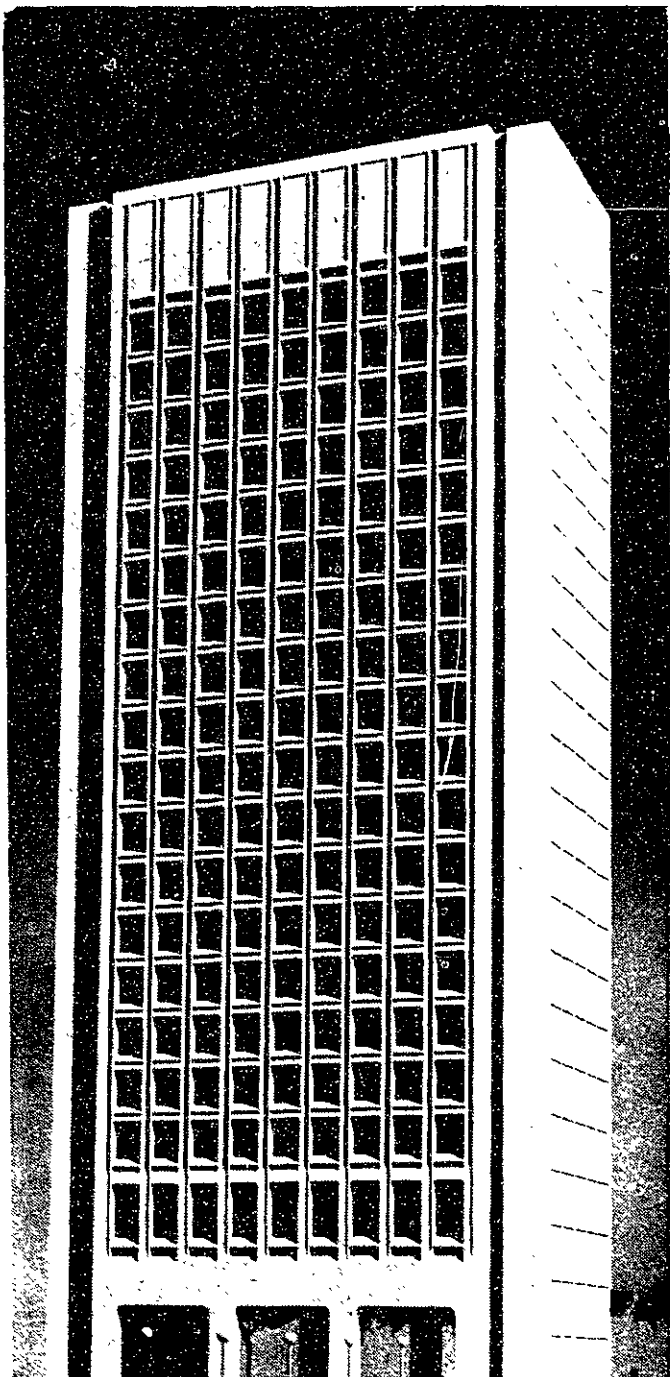
**7** Biology today encompasses and surpasses physics and chemistry in its scope and application to human life. It has become an exact science; therefore, its methods and concepts are especially at home at MIT.

The Biology Department contributions to Open House will emphasize this facet of the life sciences. There will be exhibits of an operating electron microscope (Room 16-524), a preparative centrifuge (16-534), and paper electrophoresis (16-534).

A liquid scintillation counter, in Room 16-534, will demonstrate the latest type of equipment for determining radioactivity. There will be an X-ray diffraction model of the DNA molecule, the primary carrier of genes, in Room 16-744. The microscope and the X-ray equipment will be explained at the exhibits.

There will also be student dis-

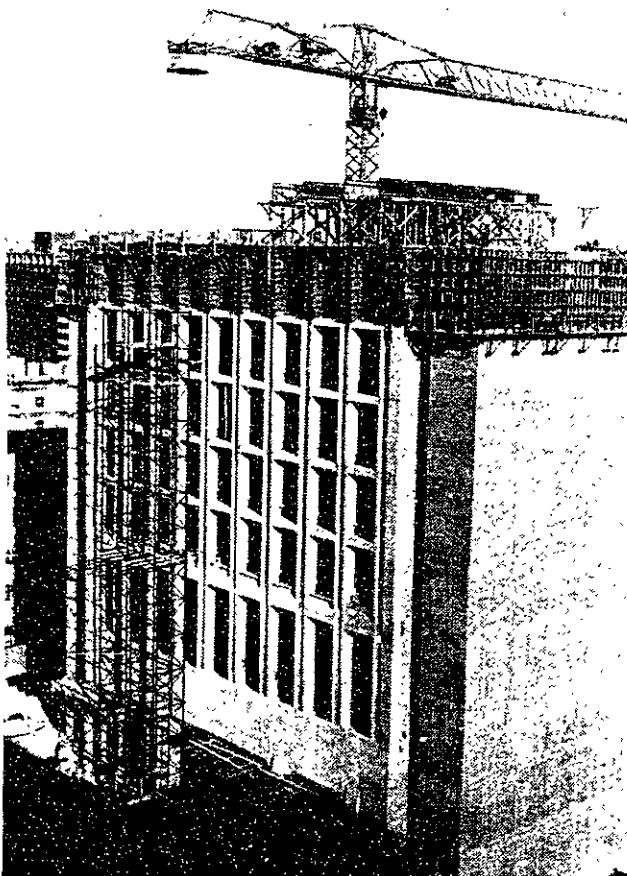
## Earth Sciences Center to be finished by this fall



Located on the East Campus, the Green Center for the Earth Sciences will provide 126,000 square feet for geology, geophysics, meteorology, oceanography, and for the newly emerging and related fields of space and planetary science.

The 20-story structure, 120 feet long and 50 feet wide, will be unusual in several respects. Four corner columns will support it; placing all shafts in the building's ends will leave all floors free of structural obstructions. The floors will be prestressed concrete joists, resting on floor-high trusses which will transmit their loads to the corner supports.

The center will be completed this fall.





# and research departments

## Visitors to participate in economic experiment with bargaining games

14

The Department of Economics and Social Science consists of three principal sections; Economics, Political Science, and Psychology.

The areas of teaching and research interest in the department cover most of the concerns of man — how he produces goods and services, governs himself, and responds to his environment.

Some hypotheses in economics makes certain assumptions about how people react in bargaining situations. One way of gaining information about the validity of these assumptions is through experimental situations using bargaining games.

Some examples of these games will be available in Room 52-180. Visitors may participate in these experiments as well as hear lectures on the theory they represent.

## Aeronautics to show student labs, flutter tunnel, Mercury capsule

16

Manned and unmanned vehicles operating above the earth's surface are the province of the Department of Aeronautics and Astronautics. A wide variety of problems, ranging from inertial navigation to aerodynamic heating, are encountered in this field and are studied in the departmental research laboratories.

The department will hold a general open house in its headquarters, Building 33. Student laboratory projects will be exhibited in the basement. On the second floor mezzanine, visitors will be able to watch a flutter tunnel in operation.

A Mercury capsule, like the one which carried John Glenn into

orbit, will be displayed in the lobby of Building 7. The capsule itself is shaped like a bell; it is about ten feet high and about six feet wide at the base.

There is a heat shield on the base to protect the astronaut from the intense heat encountered on re-entry into the atmosphere. The capsule contains seven and a half miles of wiring for its instrumentation.

The department will also exhibit a Space Mobile in the parking lot of Building 33.

## Math Dept. presents game problems to demonstrate applications of math

18

The functions of the Mathematics Department are to provide a good mathematical foundation for all students, to provide a mathematical consultation service for MIT, to train professional mathematicians, and to carry on research in pure and applied mathematics.

The mathematics exhibits will attempt to demonstrate some simple and interesting applications of mathematical ideas and will try to give the visitor an idea of the nature of mathematical reasoning.

The exhibits are designed to include the participation of the visitor, who will be presented with several mathematical problems to try.

The applied mathematics exhibit will present the cycloid pendulum as a mathematical solution to a physical problem in Room 2-151. The birthday problem will be demonstrated as part of the game theory and probability exhibit in Room 2-143.

The history of mathematics will be discussed in Room 2-135. Other exhibits sponsored by the department are: topology, in Room 2-139; number theory, in Room 2-170; and geometry, in Room 2-146.

## Towing tank to be shown

13

Naval architecture and marine engineering envelops the problems of engineering, management, and construction associated with vehicles operating below and just above the surface of the sea.

The wide variety of interests in the department will be shown in the various Open House exhibits.

In Building 48, a 108-foot ship-towing tank will be on demonstration. Small models of ship designs will be tested in conditions simulating a variety of sea conditions.

The propeller-tunnel demonstration (Room 3-269) will show the department's work in the areas of cavitation and propeller design.

In Building 5, the Hart Nautical Museum (first floor) and an exhibition of machinery models (basement) will be open.

In addition, continuous showings of 'Something New Under the Sea,' Parts I and II, and of 'Specification 12 Meters' will be featured in Room 5-134.

## Earth science exhibits to include movies, mineral display, and seismograph apparatus

12

The origin, age, and composition of the earth, the physical state of the earth's interior, and the origin of the oceans and atmosphere are among the most challenging and perplexing problems of science. They all lie within the domain of the Department of Geology and Geophysics.

The department's areas of interest will be exhibited in Building 24. For those who want to sit down and relax by watching

a movie, five or six short films dealing with various aspects of the earth sciences will be shown continuously in Room 321.

In Room 309, students and staff members will be on hand to describe a mineral and fossil exhibit, and to provide tours of laboratory facilities.

A seismograph will be set up in Room 417. This apparatus will register vibrations caused by people walking in the halls outside. Oceanography research will be shown in Room 409.

## Institute symbolized

## Alma Mater central figure in murals



Above is the mural on the north wall of Walker Memorial. Below, left and right, are the left and right panels, respectively, from the south wall. All were painted by Edwin Howland Blasfield '69 and his assistant, reaching completion in 1930.

*Editor's note: The description of the Morss Hall murals in the following article were written by Dr. James Rhyne Killian '26 in a pamphlet published in 1935. Dr. Killian is now chairman of the MIT corporation.*

The murals in Walker Memorial's Morss Hall were painted by Edwin Howland Blasfield '59 and his assistant, Vincent Aderente. The work took seven years, reaching completion in 1930. It was financed by Everett Morss '85, former treasurer.

Walker Memorial itself was

built by alumni as a student union in memory of the Institute's third president, Francis Amasa Walker.

### North mural

The mural on the central panel of the north wall is titled 'Alma Mater.' The central seated figure is Alma Mater holding Victory in her right hand, while her left hand rests on the Seal of the Institute. On her lap lies the great seal of the State of Massachusetts. The world is at her feet, as shown by a terrestrial globe supported by a cherub. At her right is a personified representation of learning through the printed page, and on her left is a similar figure representing knowledge through experiment.

The figures turned toward Alma Mater on each side of the center represent the various branches of knowledge. The lower part of the picture represents the Charles River Basin with a misty suggestion of the Technology buildings in the distance.

The left panel on the south wall conveys the thought that chemistry has given mankind almost unlimited power and raised the question: shall that power be used to build up or demolish civilization?

### 'Ye shall be as gods'

The symbolic figure of the scientist stands between two great jars containing beneficent and maleficent gases, or constructive and destructive possibilities. The group below represents diplomats and officers at the council table of the world. In the upper section of the panel a figure of Hygeia is depicted placing a crown on the head of the scientist.

Animal figures symbolic of the dogs of war lurk beside the jar of evil gases, while in the background may be seen the figure of Famine. The large figure stand-

ing in the shadow of the tree of knowledge represents Nature.

At the foot of the panel two children support an inscription from Genesis: "Ye shall be as gods, knowing good and evil."

On right panel of the south wall, Humanity, represented by the mother and her children, is being led forward by Knowledge and Imagination from chaos to light.

In the foreground, children are shown carrying the scales of justice, without which no real progress is possible. Above, the dove of peace hovers, and beyond in the background the stars and planets whirl in celestial space.



## Engineering Department

## demonstrates desalination of water

mon with both the chemist and his fellow engineers; with the first because of the chemical nature of his problems; with the second because of his concern with large-scale industrial processes.

The Chemical Engineering De-

partment will offer a wide variety of displays demonstrating various research projects now underway. Fundamental studies now being carried on in the area of semiconductor catalysis will be explained in Room 12-166.

The work being done in the department on desalination of water will be shown in Room 12-132. Exhibits here will include desalination by reverse osmosis and preparation of ultra-thin membranes for desalination.

There will be demonstrations of gas chromatography and infrared spectroscopy in Room 12-092, and a film on crystal growth will be shown in Room 12-011.

A variety of projects will be on display in the Fuels Research Laboratory, on the second floor of Building 31A. Exhibits will include radiation from laminar diffusion flames, soot formation in laminar diffusion flames, and mixing in a jet flow.

## accelerators

The Van de Graff generator, in Building 38, will be on display. Achieving a charge of 8.5 million electron volts, this device is used to study collisions between nuclear particles.

The synchrotron, in Room 24-036, will also be open all day. This machine is used to accelerate electrons for various research projects.

The third accelerator to be exhibited by the department is the linear accelerator, in Room 20D-014. Constructed in 1949, it achieves energies up to 17 million electron volts.

Tours also offered

Management will give panel talk

**15** The School of Industrial Management has two aims: to assist men to prepare themselves for future positions of business leadership, and to increase the effectiveness of industrial management through research.

At the departmental open house, there will be guided tours of the Sloan Building from 12:00 to 5:00. These tours will emphasize the computer center, the human behavior laboratory, the work study laboratory, and a model of the proposed management center.

From 3:00 to 4:00 the school will present a panel discussion, 'Pioneering in Management.' Six students, led by Prof. Douglas McGregor, will discuss the importance of applying computer science to the complex world of industrial technology.

The school offers courses leading to degrees of bachelor of science, master of science, and doctor of philosophy in industrial management.

Air currents, radar shown by Meteorology

**19** The Department of Meteorology seeks to enlarge and refine knowledge of the atmosphere of the earth and of the other planets. Studies of the internal mechanisms of our atmosphere accompany investigations of its interactions with the oceans, with the solid earth, and with extra-terrestrial bodies.

While everyone else is hoping for a beautiful day for Open House, the Department of Meteorology is hoping for rain. A drenching thunderstorm would produce an excellent display on the department's radar in Room 24-618.

In Room 24-611, several freshman Seminar participants will demonstrate analog representation of atmospheric circulation. Utilizing such items as dry ice, sunlamps, and chemical flow markers, the dishpan analog the patterns of air and water currents.

On the sixth floor of Building 24, current weather maps will be posted, along with computer weather forecasts — based in part on data gathered by satellites.

Humanities Dept. will give forum

**21** In its determination to achieve a well balanced education for all its undergraduates, MIT provides through the Department of Humanities required and elective courses in history, literature, music and philosophy.

In addition, the department administers Course 21, which combines the basic subjects in science or engineering with a concentrated program in the humanities.

The books used in the required undergraduate humanities sequence will be on display in the Humanities Reserve Library Room.

In addition, music will be displayed in the music library and publications of members of the department will be shown in the bookcase on the ground floor of the Hayden Library near the Art Gallery.

At 2:30 pm, a program will be given in the Hayden Library Lounge, 14E-310. This program will consist of a short symposium on 'The Contributions of the Humanities at MIT.'

**20** Problems associated with the rapidly increasing world population and with the rapid application of scientific and technological discoveries by the food industry present an unprecedented challenge for nutrition and food sciences.

Although these areas originated in chemistry, physics, physiology, and engineering, they are today integrated sciences serving as focal points for developments in many disciplines.

The Department of Nutrition and Food Science will present various displays in Building 16. Food chemistry and engineering will be shown in Room 134. Exhibits here will include: an orange juice concentration process, a display of freeze-drying as a new dehydration technique, a canning-machine demonstration, and a high-pressure retort.

The food toxology exhibit in Room 238 will display various toxic substances from natural foods. Another display is the fluorescent antibody technique, a method of identification of food poisons and pathogenic microorganisms. It is based on the adsorption of specific fluorescent antibodies on the surface of these organisms.

In Room 238, a number of exhibits dealing with biochemical engineering will be shown. A continuous culture and growth experiment with algae has been constructed.

It is a laboratory scale model of a pilot plant for utilizing the potential of algae as a food source.

A fermentation set-up for industrial microbiological systems will also be on display, along with an exhibit on flavor analysis.

The human-nutrition and physiological-chemistry activities of the department will be on display in Room 336. An amino acid analyzer will be shown along with metabolism studies in rats and guinea pigs and a display on the nutritional aspects of physical work.

Films entitled 'Hungry Angels' and 'Horizons in Food Technology' will be shown continuously in Room 310.

Algae experiment

Nutrition and Food Science to show food poisons

**22** The Department of Nuclear Engineering carries out a program of teaching and research directed toward adapting nuclear energy for the uses of man.

Nuclear engineering is a highly specialized field which requires considerable knowledge of many other fields, such as mechanical, electrical, and chemical engineering; physics; and mathematics.

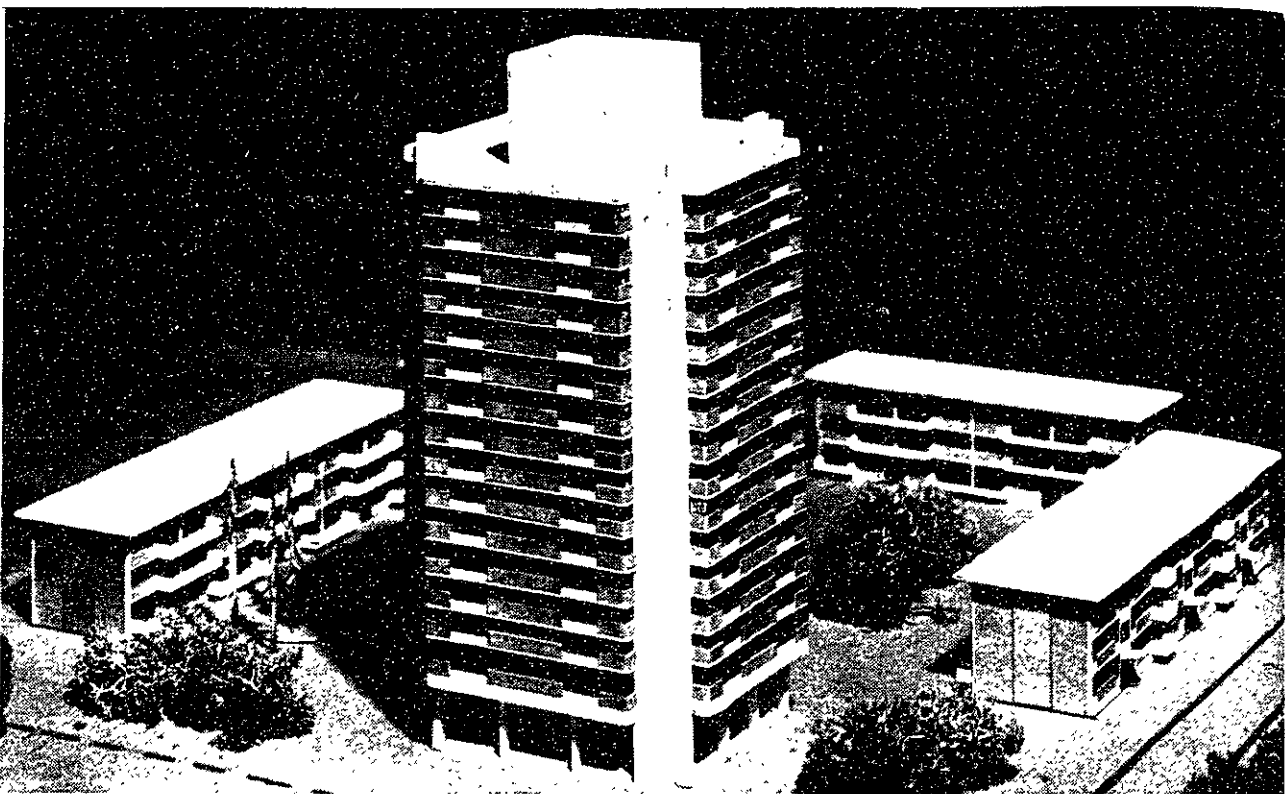
The nuclear reactor, on Vassar street, though small in comparison to reactors used for the production of power or fissionable material, is a versatile research tool. The reactor will be open all day, and tours will be guided.

Tours to be guided through nuclear reactor facilities

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New housing units will open next fall

As part of the Second Century Program, two new housing units are under construction.

The new Residence for Women Students, on Memorial Drive overlooking the Charles River, was made possible by a gift from Mrs. Stanley McCormick, of Boston, who was graduated in biology in 1904.

The first on-campus dormitory for women, it will provide accommodations for 116 students, with additional guest rooms and lounges for women students living off campus.

The house will be ready for occupancy for the 1963-64 fall term.

At the western end of the campus, five new buildings are being built to provide housing for 210 married-student families. This is a self-amortizing project financed by a three-million-dollar loan under the federal government's college-housing program.

The new complex will be dominated by a sixteen-story tower containing ninety efficiency and sixty one-bedroom apartments. Around this high-rise building will be four three-story garden-type units containing a total of sixty two-bedroom apartments.

Construction was begun this past January, and the apartments should be ready for the fall of 1963.

CIS to display books in Dewey

Since its founding in 1951, the Center for International Studies has conducted research concerning international affairs. Today the center is primarily engaged in study in four areas: economic and political development, international communications, the Communist Bloc, and military and foreign policy.

As its contribution to Open House, the center will have a book display in the Dewey Library, on the third floor of Building '52.

Dehydration technique

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## 18 student activities and organizations to participate in Open House programs

Eighteen campus activities and organizations will be spotlighted during Open House. Student programs and demonstrations will focus attention on the multitude of activities on the MIT campus.

The Athletic Association will have an exhibit in the lobby of the Du Pont Athletic Center. The Sailing Pavilion will be open as part of the exhibit of the Nautical Association. Diving and swimming exhibitions will be given in the Alumni Swimming Pool under the direction of the Swim Club.

Three MIT publications will participate in Open House. Tech Engineering News, the student professional magazine, will open its office (Room 50-302) to the public. Tangent, the student lit-

erary magazine, will have a booth in the lobby of Building 10. The offices of The Tech, in Room 50-211, will be open during the regular Saturday make-up session.

Also in Walker Memorial, the Institute Committee will open its offices (Room 50-110), as well as The Technology Community Association (Room 50-105). WTBS, the student radio station, will demonstrate the functioning of its studios in the basement of Walker.

Entertainment begins at 1:00 pm with a one-hour program review sponsored by the Lecture Series Committee in Room 10-250. Showing will continue until 4:00 pm. The Burtones, All-Tech

and winners, will present a concert at 3:00 pm in the lobby of Building 7.

Alpha Phi Omega, the national service fraternity, will show preparation for the Spring Carnival in Rockwell Cage.

The religious clubs will conduct tours of the Chapel through the afternoon.

Among the other clubs presenting exhibits are the Hobby Shop (Room 2-051), the Model Railroad Club (Room 20E-214), the Radio Society (50-358C), the Rocket Research Society (Room 2-025), and the Sports Car Club (east parking lot).

## Diorama also featured

### Telstar among special exhibits

Several special displays will be exhibited during Open House.

A cosmic rays display will be in Room 12-142. The Cambridge Electron Accelerator will have a display in the lobby of Building 6. Paintings and drawings by Boston artist Conger Metcalf are on display in the Hayden Gallery.

The lobby of Kresge Auditorium will feature Diorama, an electronic systems exhibit that will explain the integration and control of the aerospace systems which constitute our nation's defense.

The exhibit will show how information from early warning systems, radar lines, satellites, picket ships, and air craft is

transmitted, and how these different sources are co-ordinated to form the command and control operation known as ACE, the Aerospace Control Environment.

A Telstar exhibit will be set up in the lobby of Building 10. The display will explain the satellite which serves as a microwave relay in space to transmit telephone conversations, data, and television programs across oceans. The self-contained power supply of the satellite is also shown.

A film about Telstar will be shown at Kresge; three other films are also given in continuous rotation. The other films are 'Horizons Beyond,' 'To Create Strength,' and 'Building of the MIT Reactor.'

## Laboratory for Nuclear Science to exhibit space-physics projects

The Laboratory for Nuclear Science has been organized to provide support and facilities for the experimental and theoretical investigations of modern physics.

The laboratory has arranged several exhibits for Open House, to be shown from noon to 5:00 pm.

The Cosmic Ray Group will exhibit space-physics projects on the fifth floor of Building 26. These will include replicas of the MIT plasma experiment flown on Explorer X, and the Explorer XI Gamma-Ray Telescope, as well as smaller displays.

The Van de Graaf Generator, in Building 58, will be open to the public. This huge device can

create an electric charge of 8.5 million electron volts. These high energies are used to accelerate nuclear particles.

Even higher energies, up to 17 million electron volts, are obtained from the linear accelerator. This machine may be viewed in Room 20D-014. The Synchrotron, to be seen in Room 24-036, is an electron accelerator which combines a time-varying magnetic field with a radio-frequency electric field.

The particles travel a distance of over 1100 miles around the evacuated doughnut-shaped machine before they achieve a maximum energy of 350 million electron volts.

## National Magnet Lab grows as research center

During its second year of existence, the National Magnet Laboratory has become a national center for scientific research in magnetism and the effects of strong magnetic fields on properties of all kinds.

The facilities of the laboratory (at 170 Albany Street) will be on display during Open House. Demonstrations include the uses of

power supply units, magnet cells, and experimental equipment.

With the addition of a new six-million-dollar facility, to be formally dedicated next Tuesday, greater power will be given to such key research as the effects of strong magnetic fields—up to 25,000 gauss—on nuclear, atomic, and molecular structures.

## Four living groups to be open Saturday

Among the 3600 undergraduates, about 2000 live in the four dormitories on campus. Two of these, Baker House, which holds 350 students, and East Campus, where 417 men are housed, will be open during the Open House program.

About 800 men live in the 28 fraternities, all of which serve meals for their members. Two of the fraternities on campus, Phi Beta Epsilon and Delta Kappa Epsilon, will be open to visitors.

In addition, they will be serving refreshments all afternoon.

## Sloan Fellowships aid post-doctoral studies

The chief business of universities has been to teach undergraduate and graduate students. But universities have also traditionally played host to a few scholars who wished to continue independent work in their respective fields after receiving their doctorates.

By establishing the School for Advanced Study in 1956, MIT gave formal recognition to the fact that post-doctoral fellows have become an integral part of this institution. Since its founding, the number of the school's fellows in any one year has risen from 19 to 48. In all, there have been about 170 fellows.

In order for a scholar to be appointed a fellow of the school, the MIT faculty member with whom he is working must send a nomination to the director.

Since 1957, the school has enjoyed a grant from the Alfred P. Sloan Foundation which has enabled it to offer a special kind of post-doctoral fellowship. Unlike most fellowships, for which the burden of application rests with the student, the Sloan Post-doctoral Fellowships are invitational.

## Modern Language Dept. will show Linguitrainer, computer translation

23

The Modern Language Department offers subjects on the undergraduate and graduate levels in German, French, and Russian.

It also provides a program leading to the degree of doctor of philosophy in linguistics. This program aims to give a comprehensive knowledge of modern linguistics, with particular emphasis on its experimental, quantitative, and theoretical aspects.

The department, as part of its Open House program, will be exhibiting its Linguitrainer in the Language Laboratory, Room 20C-119. Computer translation will be demonstrated in Room 20D-102; and a film, 'What Is Linguistics,' will be continuously shown in Room 2-131.

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## WORK IN EUROPE

### MORE TRAVEL GRANTS

Apr. 19, 1963 — The American Student Information Service, the only authorized placement service for American students seeking summer jobs in Europe, has increased from 1500 to 2000 the number of travel grants it will award students applying for positions in Europe.

Job openings now available in Europe include positions at factories, resorts, hospitals, farms, summer camps and in offices. Applications are received until May 31.

Interested students may write (naming your school) to Dept. H. ASIS, 22 Ave. de la Liberté, Luxembourg City, Grand Duchy of Luxembourg, for a 20-page prospectus, a complete job selection and application. Send \$1 for the prospectus, handling and an airmail reply.

The first 5000 inquiries receive a \$1 premium for the new student travel book, Earn, Learn and Travel in Europe.



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## Visitors may play tic tac toe game with IBM 7090

The facilities of the Computation Center, on the first floor of Building 26, will be on display all day throughout the Open House program.

Some problems will be demonstrated on the 7090 computer. The computer has been programmed to play tic tac toe with visitors. When in progress, the game may be viewed on a cathode-ray oscilloscope attached to the computer.

Also, the computer will solve a set of equations describing the motion of a bouncing ball. The solution to these equations will be displayed on the oscilloscope.

The IBM 7090 computer replaced the slightly slower IBM 709 in January, 1962. The 7090, more effectively transistorized than its predecessor, runs approximately three times faster than the 709.

The Computation Center is continually being used both by industry and other institutions as well as MIT. Every department now uses the facilities of the center.

More than two dozen regular MIT subjects, graduate and undergraduate, plus more than one dozen courses at other New England colleges use the 7090 as part of their instruction program.

## PMC reduces costs for fraternity system through quantity buying

Saving each of MIT's 28 fraternities several thousand dollars a year is the Purchasing Manager's Council of the Interfraternity Conference. The PMC, headed by Drew Roskos of Alpha Tau Omega, operates much like a clearing house for orders from all the fraternities.

The idea behind PMC, developed a few years ago, was to set up a council of buyers from each fraternity to pool orders on items common to all of the houses. In this way goods could be bought in quantity.

The major programs of the PMC have so far been in items such as meat, milk, liquor, oil, bread, and little items such as light bulbs. The budget for meat alone last year ran more than \$110,000; savings of from \$8000 to \$10,000 were realized.

As the IFC's largest standing committee, the PMC also functions as a complaint board. As a result of its activities has standardized much of the purchasing in the various fraternities.

Extensive new facilities, including a warehouse, are planned for the PMC in the new Student Union. Plans now call for the PMC to carry and stock various non-perishable items.

## Sangam will present seminars on India

About thirty students recently organized Sangam, a club for Indian affairs. According to its constitution, the club is intended to be a meeting point for all those interested in India.

The club members propose to present seminars and talks on Indian affairs. In addition, they plan to organize social and cultural events, and to take part in the activities of the International Program Committee.

The following students were elected club officers: president, Raghu Nath; vice-president and treasurer, Mahesh Bhogilal; and secretary, Aiyub Hoosenally '63.

Membership is open to all students, staff, and faculty members. All inquiries and suggestions should be addressed to Raghu Nath, in Room 52-417.

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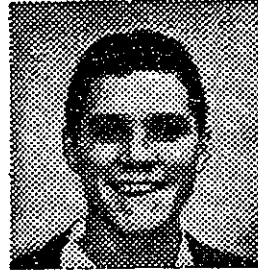
# Tempest Winners...Lap 3!



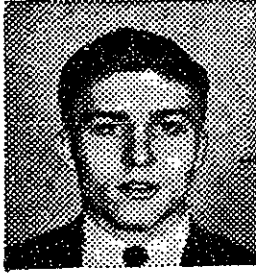
Gary L. Lewis  
U. of San Fran.



John V. Erhart  
Loras College



Byron D. Groff  
Penn State



D. B. MacRitchie  
U. of Michigan



J. L. Millard, Jr.  
Ft. Hays State



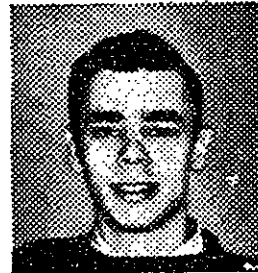
J. O. Gallegos, III  
U. of New Mexico



N.T.G. Rosania S.  
Kansas State



James W. Todd  
Valparaiso U. (Staff)



W. T. Oliver  
Lafayette College



Justin C. Burns  
St. Bonaventure U.



Edward R. Wassel  
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G. J. Tamalivich  
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Ancil K. Nance  
Portland State

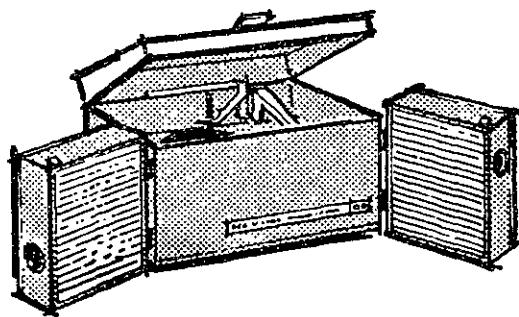


P. S. Holder, Jr.  
St. Mary's U.

# Did you win in Lap 4?

**IMPORTANT!** If you hold any of the 20 winning numbers, claim your Pontiac Tempest LeMans Convertible in accordance with the rules on the reverse of your license plate. *Girls! You may choose instead a thrilling expense-paid 2-week Holiday in Europe—for two! Plus \$500 in cash!*

All claims for Tempests and Consolation Prizes must be sent via registered mail, postmarked by April 27, 1963 and received by the judges no later than April 29, 1963.



If you hold a Consolation Prize number, you win a 4-speed Portable Hi-Fi Stereo Set, "The Waltz" by RCA Victor. Or, you may still win a Tempest! (See official claiming rules on reverse of your license plate, and observe claiming dates given above.)

LAP 4...  
**20 WINNING NUMBERS!**  
25 CONSOLATION PRIZES TOO!

- |            |             |             |             |
|------------|-------------|-------------|-------------|
| 1. D328872 | 6. A818471  | 11. C191819 | 16. A112433 |
| 2. B552083 | 7. C175380  | 12. A078603 | 17. A337477 |
| 3. B631155 | 8. A131483  | 13. D215452 | 18. C467893 |
| 4. D148138 | 9. C702472  | 14. A609159 | 19. B911494 |
| 5. C591755 | 10. A909791 | 15. C613177 | 20. B482160 |

### CONSOLATION PRIZE NUMBERS!

- |            |             |             |             |             |
|------------|-------------|-------------|-------------|-------------|
| 1. B381031 | 6. A139564  | 11. C527240 | 16. A237594 | 21. B402208 |
| 2. A260110 | 7. C373057  | 12. D799966 | 17. A127588 | 22. B792561 |
| 3. A681037 | 8. A713453  | 13. B335471 | 18. B686223 | 23. B145355 |
| 4. B746597 | 9. C831403  | 14. C033935 | 19. B521492 | 24. C402919 |
| 5. A491651 | 10. B985589 | 15. C757103 | 20. A057655 | 25. B707528 |

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## Students to work in S. America this summer

Seven seniors and five faculty members will work in South America this summer with native students and professors.

This work is part of the Inter-American Program of the Civil Engineering Department. The South American participants will then come to MIT the next year. This year the MIT students will study engineering and management problems in Columbia, Venezuela, and possibly Mexico.

Participants will include William A. Jessiman, Dale Gladding, James E. Dailey, Richard M. Males, and Stephen C. Aldrich, all students in civil engineering; there will also be two students now in industrial management.

Dr. Charles H. Savage Jr. and Professors Paul O. Roberts Jr., Arthur T. Ippen, and T. William Lambe, all of the Civil Engineering Department, and Professor Warren G. Bennis, of the School of Industrial Management, will work with the students.

## 26 teams open IM rifle competition

Intramural rifle competition got underway with a meet Saturday, April 13; 26 teams participated. The meet was won by Sigma Phi Epsilon A with 768 points, followed by Alpha Epsilon Pi, 757; Baker D, 754; Phi Kappa Sigma A, 743; and Grad House, 729.

MIT pistol team, whose members served as court officials.

## College World

## Liverpool students cross Channel on five-horsepower-driven bed

By Toby Zidle '63

Among the bigger fads to sweep through the nation's colleges last year was that of bed-pushing. One or two students would aboard a bed and be pushed by fellow students for miles across hill and dale. This idea, with a few modifications, has just caught on in Great Britain.

The most significant changes are that students are no longer pushing and that the bed is no longer crossing hill and dale. Outfitted with a five-horsepower outboard motor, the bed made the long trip across the English Channel. It was kept afloat by two 40-gallon oil drums.

Two Liverpool University students set out April 13 from Dover, England on their ornate Victorian brass-knobbed bed. Many hours later they reached Calais, France.

Said one of the students: "It was a beautiful day, with a blue sky and high clouds. The sea at times was rather heavy and it took us much longer than we calculated." The two had made the journey in answer to challenges by students at Manchester and Sheffield Universities.

It is expected that the fad will soon be taken

up by students in California as they attempt to travel the 26 miles to Catalina.

### 'Sorry'

A more conventional form of transportation—the automobile—might often cause more difficulties than would the motor-driven bed. University of Oregon sophomore Gary Moore has some firsthand experience.

Gary returned from a movie late on the evening of April 12 to find his car the possessor of a large dent. He also found, on the windshield, the following note:

"I am writing this note to make people think I am giving you my address, but you look like you can pay for it. Sorry."

The damage came to more than \$100.

### A New Election Procedure

It will certainly cost more than \$100 to get accurate results in the hotly contested 1963 election of the Ohio State Alumni Association. The Ohio State Lantern reports that a Brinks truck, a certified public accountant, and IBM card are being used in a newly instituted procedure to insure accurate results.

Two slates of candidates have been nominated and special IBM card ballots mailed to all Alumni Association members in good standing. The voters mail their ballots to a certified public accountant who is not an Ohio State alumnus.

When the voting is completed, the Brinks truck will take the ballots from the accountant to the Columbus division of IBM. IBM personnel will open the ballots in the presence of tellers representing each side. The ballots will be marked so that they will be difficult to duplicate. A machine will then count the votes, discarding any duplicate or disfigured ballots in the process.

The results of the election, however, will not be announced until the Alumni Day supper, May 25.

### Expanding The Alumni

The Alumni Association of Princeton University may soon have to expand in scope to include a new kind of member—the alumna.

It is now a "theoretical possibility" that Princeton may admit undergraduate women. The University is participating in the new Cooperative Undergraduate Program for Critical Languages along with 32 other schools, some of which are co-educational.

"Girls will theoretically be able to apply for admission from the cooperating institutions just as the boys will," said David H. Blair, assistant dean of the college.

### Needed: 12 Players

As scarce as the coeds at Princeton are the aerial ball players at the University of Washington; there aren't any yet. The Physical Education Department at UW added a new sport— aerial ball — to its Spring quarter roster. The only problem was that no one was courageous enough to sign up for it.

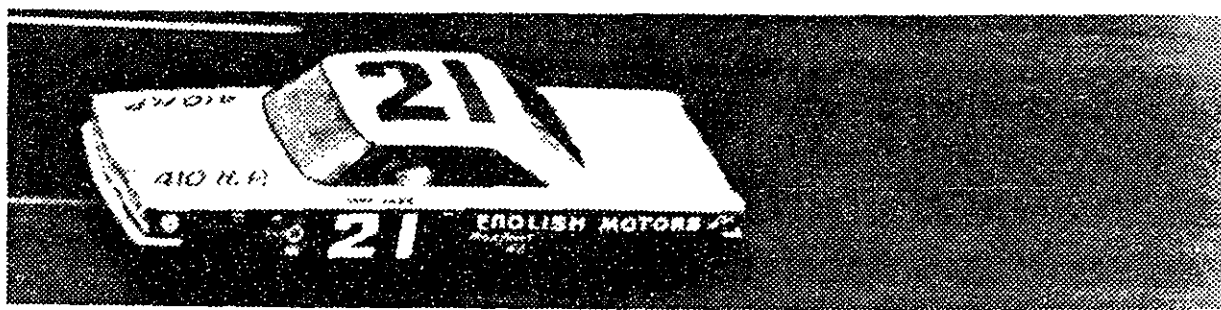
So now the gym coach is looking for 12 players who haven't already registered for the spring quarter. The game, he explains, is a cross between hockey, football, and basketball. It is played on a field about the size of a hockey rink, with a goal on each end of the field approximately the size of a hockey goal. The six players on each side field the positions of hockey players.

The ball, on the other hand, is a football. The playing rules are modifications of those used in basketball. A player, for example, may be disqualified on four personal fouls.

UW's gym coach expects that the simplicity of the rules and the wide open nature of the play will make the game very attractive.

Anyone for aerial ball?

## How Ford economy won for Tiny Lund at Daytona



The Daytona 500 is one of America's toughest stock car events. It measures the toughness, stability, over-all performance and economy characteristics of the cars that take up its challenge—in a way that compresses years of driving punishment into 500 blazing miles. This year mechanical failures claimed over 50 per cent of the cars that entered. That's why Tiny Lund's victory in a Ford (with four other Fords right behind him) is a remarkable testimony to sheer engineering excellence.

Lund attributed his victory in part to the "missing pit stop." He made one less pit stop for fuel than his competition—proving that Ford economy can pay off in some fairly unlikely situations!

Economy and the winner of the Daytona 500 might sound like odd bedfellows at first. Yet economy is basic in every car we make . . . yes, even the Thunderbird is an economy car in its own way. Here's what we mean . . .

Economy is the measure of service and satisfaction the customer receives in relation to the price he pays for it. It does not mean, however, austerity . . . you have taught us this. Americans want—and we try hard to give them—cars that are comfortable to ride in, fun to drive, and powerful enough to get out of their own way. Not many Americans want to settle for basic transportation. You see this in our sales figures—more than half of our 1963 sales are coming from the top of each model line. We're selling convertibles, hardtops, the jazzy cars . . . the bucket-seat, high-performance, luxury editions are going like hot cakes.

Yet for all the fun that people are demanding in their cars, they still are

very conscious of the element of thrift—of avoiding unnecessary expense. This is the kind of economy we build into every car from the compact Falcon to the luxurious Thunderbird.

There's a special economy, for instance, in Ford's freedom from service. Every car and virtually every wagon can travel 36,000 miles before it needs a major chassis lubrication. Other routine service has been reduced, too—because these Fords are simply built better—and of better materials—than ever before.

In its own elegant way, even the Thunderbird gives you economy. It will travel 100,000 miles or 3 years before you have to lubricate the chassis. Thunderbirds have a way of becoming classics—as a look at their remarkably high resale value will quickly tell you. This, too, is economy.

Once, long ago—before the arrival of the Income Tax—a wealthy lady was asked to comment on the solid gold plumbing of her latest villa at Newport. "So thrifty, my dear," said the dowager . . . "it will never, ever rust."

Economy then, is many things to many people. Whatever economy means to you, you're pretty sure to find it in a Ford.

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# Thirteen games played as softball enters fourth weekend of action

By Robert MacDonald  
The intramural softball schedule was relatively light in its third weekend with only thirteen out of fourteen scheduled games being played Saturday and Sunday.

**LCA, Burton in Overtime**  
There were many tight games this week including an extra-inning contest between Lambda Chi Alpha and Burton A. Burton A jumped off to a 7-0 lead in the second inning while Lambda Chi tallied four runs in the bottom of the third. This accounted for all of the scoring until the top of the sixth when Burton increased their lead to 8-4. LCA responded to this by scoring five runs in the home half of the inning to lead the game for the first time 9-8. Burton A pushed across a run in the top of the seventh to force the game into extra innings, and the game was finally won by LCA as Jim Scho-

mer '64 drove across the winning run with two men out in the bottom of the eighth.

In other close games, Burton B defeated Phi Gamma Delta 7-5, Chem Engineering slipped by AEPI 6-5, and Zeta Beta Tau B decisively Chi Phi 7-5.

**Baker Shows Power**  
Baker House played three games while rolling up a total of 52 runs compared to their opponents 12. Baker B smashed Phi Mu Delta 17-0, while the C team rolled over UCF 17-5 and Zeta Beta Tau C 18-7.

Scores:  
SPE 15, Grad House 3  
GHDS 20, PBE 8  
GMS 11, SPE B 8  
LCA 10, Burton A 9  
Baker B 17, PMD 0  
Baker C 17, UCF 5  
Burton B 7, PGD 5  
Chem. Eng. 6, AEP 5  
ZBT B 7, CP 5  
Baker C 18, ZBT C 7  
PKS 14, TC 11  
TEP 12, GEA 11  
SAE 16, PDT 12

## Kibitzer

(Continued from Page 4)

South now led the king of trumps, and West was squeezed. South held a club in his hand and three hearts on the board, and West could not guard them both. He finally pitched the jack of clubs. South now led his good deuce of clubs, and had the ace, king of hearts for game.

North-South were an aggressive partnership, but South fortunately had the playing skill necessary to land his ambitious contract. Flirting with defeat, which each of today's players brought themselves to do, is what makes duplicate the exciting game that it is.

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Frosh sports

Baseball team defeated by Milton Academy, Dean

By Mike Newhouse

The freshman nine lost to Milton Academy last Wednesday, 6-2. Jack Mazola pitched a no-hitter until the fifth inning when two hits and two costly errors let across six runs. Dean Jr. College visited MIT Saturday and left with a 2-1 victory. Dean got both its runs on a homer by the catcher, and pitcher Larry Calof accounted for Tech's sole tally with a four-bagger in the seventh in-

ning. Twice in the last two innings MIT had the bases loaded with only one away, but both times the team could not score.

Netmen Lose Two

The tennis squad dropped their meet with Harvard 9-0 Friday. In Saturday's match at Wesleyan, all the Techmen lost their matches except number two Dick Thurber. Thurber made a comeback

from a first set deficit to win, 0-6, 6-3, 6-3.

The lacrosse men were topped by Dean Jr. College 6-3 Thursday. Tom Bush, Pete Grant, and Deny Siverson scored the goals for Tech. Harvard came to Briggs field Saturday and defeated the stickmen 15-4. Experience was the determining factor in this game, as many of the Harvard men had played in high school. Bush and Pete Kirkwood had two tallies apiece for MIT.

Trackmen Edged 61-55

The cindermen met Governor Dummer Academy at home Wednesday and were edged 61-55. For Tech, Rex Ross took a first in the 220 and a second in the 100 yd. dash. Ross also won the broad jump. Sumner Brown took first in both the mile and the 880, and Joe Rife won the discus and the shotput. The Techmen travelled to Andover for a triangular meet with Tufts and Andover. Tech placed second with 46 points, behind Andover's 85½. Tufts finished third with a 21½ points. Ross and Brown again split five firsts between them in their respective events.

Stickmen aim attack against Amherst



The MIT attacker (hidden behind John Lambert. No. 12) is about to scoop up the ball in Saturday's lacrosse contest against Amherst. Jim Anderson and Wayne Matson (second and third from right) follow the play. Amherst won, 4-3. —Photo by Joe Baron

Lacrosse team drops close battles To Holy Cross and New Hampshire

The MIT lacrosse team dropped two games by one-goal margins last week. The stickmen lost to Holy Cross by 7-6, Tuesday, April 16, and fell 4-3, to the University of New Hampshire Saturday, April 20.

The MIT squad was leading by three goals at one point in the Holy Cross game. However, the Holy Cross team played a strong second half to pull into a one-

point lead and win the game. Tech goals were scored by Wayne Matson, '64, Mike Monsler, '64, Jim Anderson, '63, and Tony Weikel, '63.

Before a large home crowd Saturday, the MIT squad dropped its second contest of the week. This was a hard-fought battle all the way, with UNH getting the edge. Tech goals were scored by Matson and Monsler.

Ludeman scores 289

Rifle men beat Wentworth

MIT's rifle team downed Wentworth Institute 1409-1336 last Wednesday. MIT's record now stands at nine wins and one loss in the Boston Rifle League.

Captain Dick Ludeman '63, who has had the highest average on the team all season, once again led the team with a 289. Dave Hamada '65 followed with 284 and Joe Boling '64, fired a 281. Jim Downward, '65, 278 and Karl Frederick '65, 277 filled out the rest of the high five for the match.

For the third straight year, MIT has captured both the Boston and the New England cham-

pionships. In addition, MIT has taken the annual Boston Handicap Tournament the last two years. This year's handicap match is slated for next Saturday and will terminate the 62-63 season competition.

Fencers choose Art Best captain of '63-'64 squad

Art Best '64 was elected captain of the 1963-64 MIT fencing team. He had the best win-loss record on the team (24-11) and took second place in sabre competition in the New England Intercollegiate Championships.

HONDA

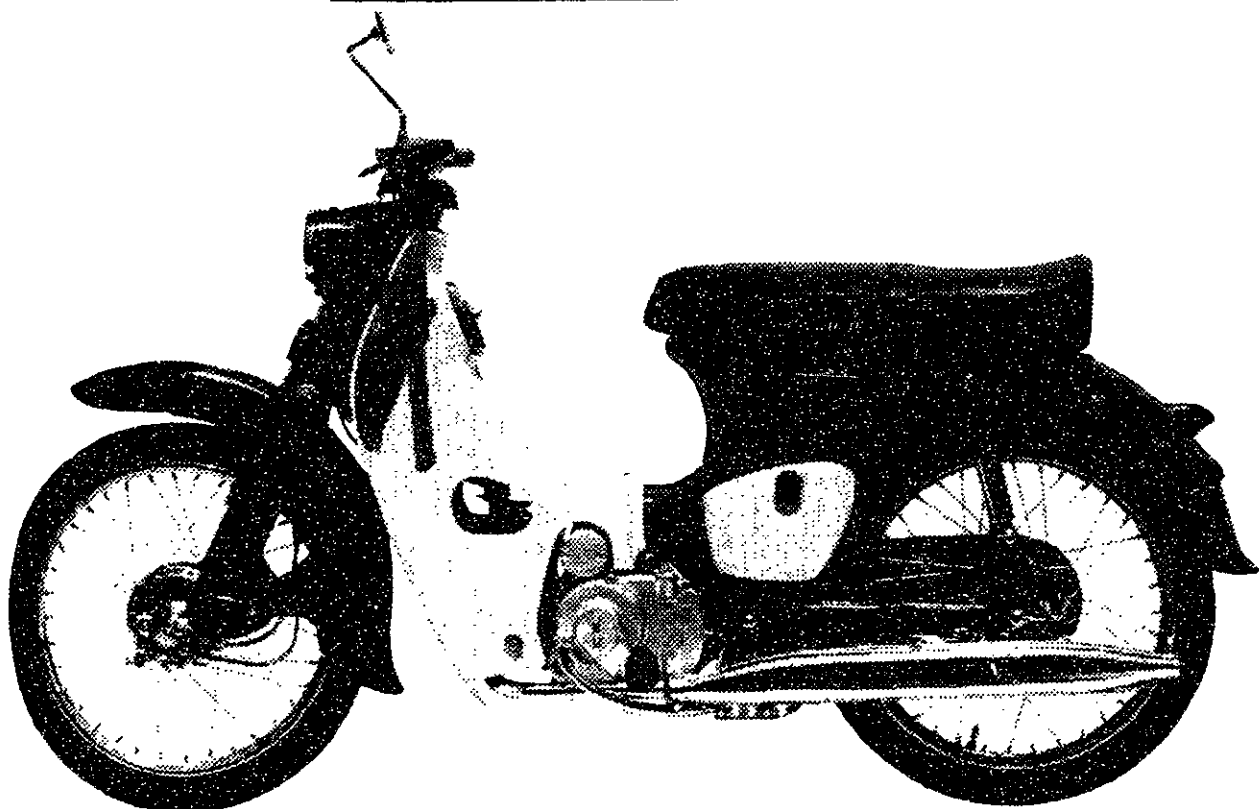
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THE TECH COOP

## Accounting, payroll offices moved to Technology Sq.

The Comptroller's Accounting Office, Room 5-330, and the Comptroller's Payroll Office, Room 24-211, were moved Friday to temporary quarters on the second floor of the Technology Square Building.

The two offices will be moved to permanent quarters in the Daggett Building on Ames Street, as soon as alterations of that building are complete.

## Student fined \$146

An MIT student who failed to register his car with the Cambridge Police Department was recently fined \$146.

The chief of Cambridge police, Daniel Brennan, refused to divulge the student's name but said that the offender's home state was New Jersey.

The reasons for the large fine, according to Chief Brennan, were that the student had failed to report after several parking violations and that his home state car registration was out of date. Moreover, he had not registered his car with the Cambridge authorities.

## Golfers downed by Tufts, Williams; Outshoot Trinity for first NE win

By John Eek

The MIT golf team began its spring schedule of New England matches with a 5½-1½ win over Trinity and losses to Tufts (6-1) and Williams (4-3) last week. The linksters record now stands at five wins and five losses.

### Tufts Wins 6-1

The Golfers met a tough team from Tufts and suffered a 6-1 loss Monday. Peter Lubitz '65, who was low man for MIT, tied his opponent with a 76. Neil Hull '63 scored the other half-point for Tech, tying his opponent while shooting a 90. Other scores for Tech were 80 for Bill Lakin '65, 90 for Bill Graham '64, 92 for Roy Carver '64, 89 for Mike Finson '63, and 94 for Glenn Stith '64.

### Tech Downs Trinity

Tech played a triangular

match beating Trinity, 5½-5½, while losing to Williams by 4-3, Wednesday. Lubitz was again low man for Tech, shooting a 79 while beating both of his opponents. Stith followed with an 83, also beating both of his opponents. Al Pogeler '65, John Sinnott '65, and Graham shot 87, 87, and 84 respectively while beating their Trinity opponents and losing to their Williams foes. Carver shot an 87, beating his opponent from Williams while tying his adversary from Trinity, and Finson shot an 86 while bowing to both of his opponents.

### Techmen Meet Wesleyan

The golfers have two matches slated for this week. The Techmen play at Wesleyan today and meet Merrimack and the University of New Hampshire at home in a triangular match Friday.

## How They Did

### Baseball

Boston State 9—MIT 3  
Bates 8—MIT 7  
Milton Academy 6—MIT (F) 2  
Dean Junior College 2—MIT (F) 1

### Crew

VARSITY HEAVIES  
Won by Columbia 9:55; 2, MIT 10:24

JV HEAVIES  
Won by MIT 10:09.5; 2, Columbia 10:24

FROSH HEAVIES  
Won by Columbia 10:04; 2, MIT 10:18.7

VARSITY LIGHTS  
Won by MIT 6:34.9; 2, Dartmouth 6:46.6; 3, Yale 6:50.6

JV LIGHTS  
Won by MIT 6:41.1; 2, Dartmouth 6:54.6; 3, Yale 6:59.1

1ST FROSH LIGHTS  
Won by MIT 6:52; 2, Dartmouth 6:58.6; 3, Yale 7:20.5

2ND FROSH LIGHTS  
Won by MIT 6:50.8; 2, Dartmouth 7:01.1

Golf  
MIT 5½—Trinity 1½  
Tufts 6—MIT 1  
Williams 4—MIT 3

Lacrosse  
Holy Cross 7—MIT 6

New Hampshire 4—MIT 3  
Dean Junior College 6—MIT (F) 3

### Tennis

MIT 8—Bowdoin 1  
MIT 9—Colby 0  
MIT 5—Wesleyan 4  
Harvard (F) 9—MIT 0  
Wesleyan (F) 8—MIT 1

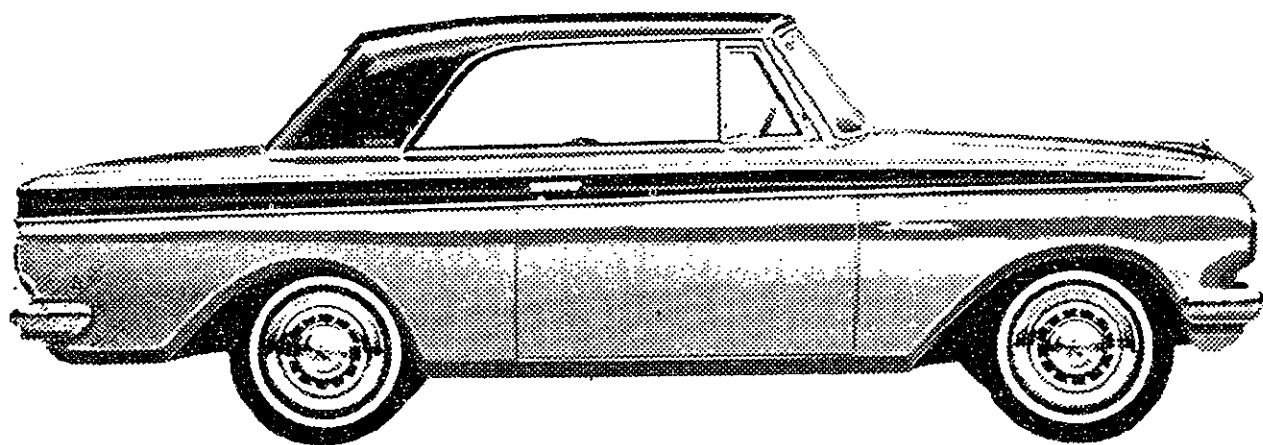
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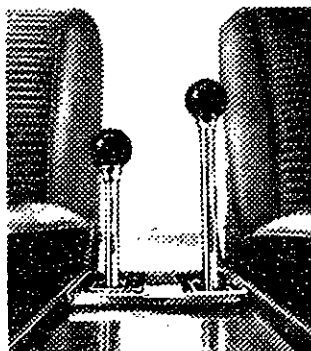
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## On Campus with Max Shulman

(Author of "I Was a Teen-age Dwarf", "The Many Loves of Dobie Gillis", etc.)

## HOW TO SEE EUROPE FOR ONLY \$300 A DAY: NO. 1

Summer vacation is just around the corner, and naturally all of you are going to Europe. Perhaps I can offer a handy tip or two. (I must confess that I myself have never been to Europe, but I do have a French poodle and a German shepherd, so I am not entirely unqualified.)

First let me say that no trip to Europe is complete without a visit to England, Scotland, Wales, Ireland, France, Germany, Spain, Portugal, Italy, Lichtenstein, Holland, Belgium, Luxembourg, Switzerland, Denmark, Sweden, Norway, Finland, Poland, Czechoslovakia, Latvia, Lithuania, Estonia, Russia, Greece, Yugoslavia, Albania, Crete, Sardinia, Sicily, Hungary, Rumania, Bulgaria, Lapland, and Andorra.

Let us take up these countries in order. First, England.



*The old ones are thrown away*

The capital of England is London—or Liverpool, as it is sometimes called. There are many interesting things to see in London—chiefly the changing of the guards. The guards are changed daily. The old ones are thrown away.

Another "must" while in London is a visit to the palace of the Duke of Marlborough. *Marlborough* is spelled *Marlborough*, but pronounced *Marlboro*. English spelling is very quaint, but terribly disorganized. The late George Bernard Shaw, author of *Little Women*, fought all his life to simplify English spelling. They tell a story about Shaw once asking a friend, "What does g-h-o-t-i spell?"

The friend pondered a bit and replied, "Goatee."

Shaw sniggered. "Pshaw," said Shaw. "G-h-o-t-i does not spell goatee. It spells *fish*."

"How is that?" said the friend.

Shaw answered, "*Gh* as in *enough*, *o* as in *women*, *ti* as in *motion*. Put them all together, you get *fish*."

This was very clever of Shaw when you consider that he was a vegetarian. And a good thing he was. As Disraeli once remarked to Guy Fawkes, "If Shaw were not a vegetarian, no lamb chop in London would be safe."

But I digress. We were speaking of the palace of the Duke of Marlborough—or Marlboro, as it is called in the United States. It is called Marlboro by every smoker who enjoys a fine, rich breed of tobaccos, who appreciates a pure white filter, who likes a soft pack that is really soft, a Flip-Top box that really flips. Be sure you are well supplied with Marlboros when you make your trip abroad. After a long, tiring day of sightseeing there is nothing so welcome as a good flavorful Marlboro and a foot-bath with hot Epsom salts.

Epsom salts can be obtained in England at Epsom Downs. Kensington salts can be obtained at Kensington Gardens, Albert salts can be obtained at Albert Hall, Hyde salts can be obtained at Hyde Park, and the crown jewels can be obtained at the Tower of London.

The guards at the Tower of London are called Beefeaters because they are always beefing about what they get to eat. This is also known as "cricket" or "petrol."

Well, I guess that about covers England. In next week's column we will visit the Land of the Midnight Sun—France.

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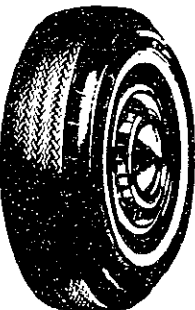
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## Rugbers smash Wesleyan, Boston Rugby Club

**By Susan M. Rogers**

The Rugby Club emerged doubly victorious from Saturday's encounters, trouncing Wesleyan 16-3 in the first game and Boston 23-6 in the second.

**Wesleyan Lacks Finesse**

Apparently unfamiliar with rugby, the Wesleyan team frequently seemed to think it was playing football. Blocking, offsides, and rough play abounded, with more knock-ons occurring than were called. Fred Knachman made Wesleyan's only try for a goal.

Tech took advantage of the strong wind in its favor during the first half, when it scored 13 of its 16 points. Pinch-hitting as scrum half for Captain Marty Weber (who was getting married) was John Lees.

Tom van Tienhoven '66 made the first try and led the scoring with seven points, including two conversions made with an effective instep kick. Piling points against a fierce wind were John Lees, David Ritter, and Allan Newell.

The scrum rode lower this week. Play tightened up due to better binding in and harder pushing.

**Koch Scores Twice**

Several newcomers to the sport played Boston Rugby Club's home team in the second game. Scoring twice in his first game, gazelle-like David Koch '62 will be helpful later in the season when Tech takes on tougher teams. At 1:30 pm Saturday the Engineers meet Holy Cross on Briggs field.

## Baker, Burton dominate ping pong finals; PBE, SAE, AEPI, PDT in contention

**By Dick Minnick**

The regular season play in the intramural table tennis tournament was completed last week. Next week, the top two teams in each major division league and the top team in each minor division league will begin a round-robin tournament to determine the ranking of the twelve best teams on campus. The third

place major division and second place minor division teams will compete in a separate round-robin playoff to determine the 13th through 20th places. Intramural points will be awarded to the living groups on the basis of the results of these playoffs. The finals will be dominated by Baker and Burton House teams. Baker A, B, C, and D are all

eligible, as well as Burton A, B, and C. East Campus A rounds out the eight teams which will represent the dormitories. Phi Beta Epsilon, Sigma Alpha Epsilon A, Alpha Epsilon Pi A, and Phi Delta Theta A, the top four fraternity teams, will also battle for honors.

The secondary playoffs will include Burton D, Chi Phi A, Senior House A, Grad House A, Phi Kappa Theta A, Phi Delta Theta B, and Sigma Phi Epsilon A. The winner of a tie-breaking match between Sigma Alpha Mu and Burton E will also be eligible.

## Trackmen collect 12 first places to score 95-40 romp over Tufts

MIT's trackmen crushed Tufts 95-40 at Phillip's Andover Academy last Saturday. Collecting twelve first, ten second, and eight third places, and sweeping four events, MIT dominated the meet from beginning to end.

**Techmen Sweep Three**

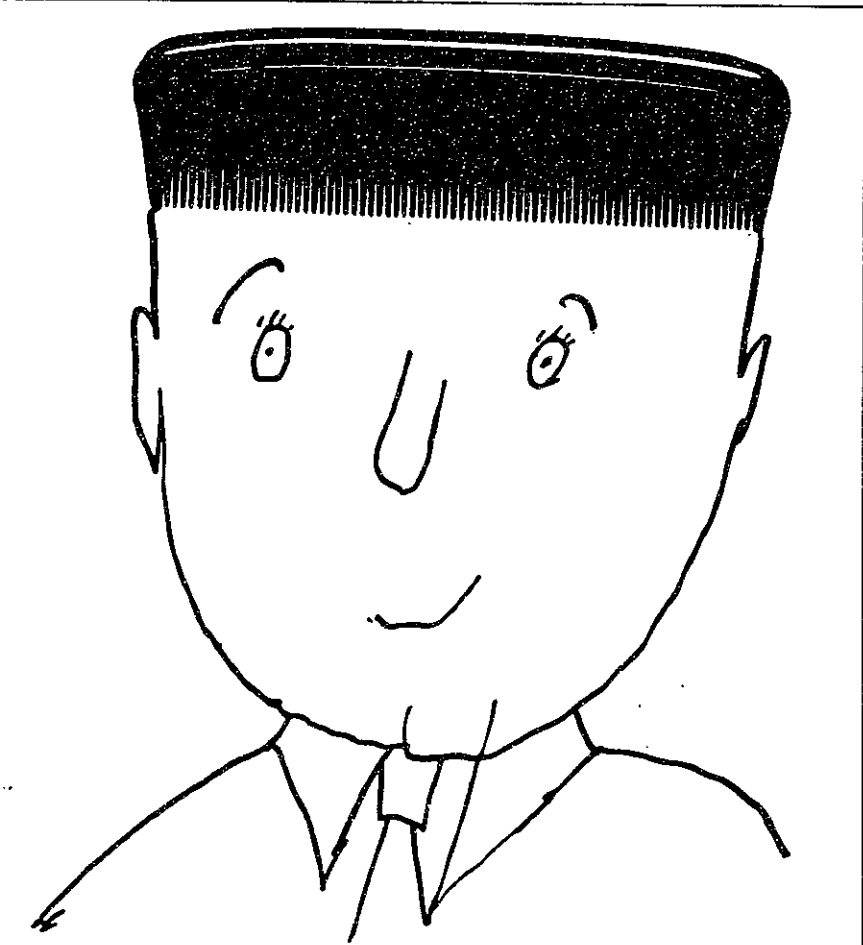
MIT swept three events and placed first and second in another to triple Tufts track point total. Jim Flink '64 took the 100 and 200-yard dashes and the 120-yard high hurdles. Tom Goddard '63 won the mile run while Mike Oliver '65 placed second. Roger Butler '65 finished first in the two-mile run. Terry Dorschner '65 was the other track winner, beating teammate Al Tervalon '65

to the tape in the 220 yard low hurdles.

**Eagleson Wins Twice**

In the field events MIT had a little more trouble with Tufts but were able to outscore their opponents. Eagleson '64 won both the high jump and the javelin. Wrestler Kim Sloat '64 won the shot put with a heave of 46'8". In the hammer throw Jerry Dassel '64, Jim Kotanchik '64, and Tom Callahan '65 teamed to give MIT a sweep. One-two finishes were also engineered by Gary Lukis '64 and Mike Keehner '65 in the pole vault and Dave Carrier '65 and Roger Hinrichs '63 in the broad jump. Tufts swept the discus to hand the Techmen their defeat of the day in any event.

Final League Standings		
Major Division		
League I	W	L
Baker A	5	0
East Campus A	4	1
Burton D	3	2
Grad House B	1	4
Chinese Students Club C	1	4
Senior House C	0	5
League II		
Burton A	5	0
Baker B	4	1
Chi Phi A	2	3
East Campus B	1	4
Chinese Students Club D	1	4
Grad House C	0	5
League III		
Baker C	5	0
Burton B	4	1
Senior House A	3	2
Chinese Students Club A	2	3
Alpha Tau Omega	1	4
League IV		
Burton C	5	0
Baker D	4	1
Grad House A	3	2
Senior House B	2	3
Lambda Chi Alpha A	1	4
Minor Division		
League V		
Phi Beta Epsilon	5	0
Phi Kappa Theta A	4	1
Chi Phi B	2	3
MIT Student House	2	3
Lambda Chi Alpha B	1	4
Club Latino	0	5
League VI		
Sigma Alpha Epsilon A	5	0
Sigma Alpha Mu	3	2
Burton E	3	2
Phi Kappa Theta B	2	3
Phi Sigma Kappa B	1	4
Phi Mu Delta A	1	4
League VII		
Alpha Epsilon Pi A	5	0
Phi Delta Theta B	4	1
Phi Sigma Kappa A	2	3
Sigma Alpha Epsilon B	2	3
Delta Tau Delta	0	5
Sigma Phi Epsilon B	0	5
League VIII		
Phi Delta Theta A	4	1
Sigma Phi Epsilon A	3	2
Sigma Chi	2	3
Alpha Epsilon Pi B	1	4
Sigma Alpha Epsilon C	0	5
Phi Mu Delta B	0	5



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# Lights sweep Dartmouth, Yale

The lightweight crews started their season by sweeping five races against Dartmouth and Yale on a windy Husatonic River last Saturday at Derby, Connecticut.

Rowing conditions were generally good, and all times were aided by a swift current. By the end of the afternoon, the Tech bantams had collected 75 Ivy League racing shirts.

## Varsity Outsprints Dartmouth

Yale jumped out to an early but shortlived lead in the varsity race, but before the Eli coxswain had passed the number six Techman, the Engineers began to steam back. Stroke Mark Barron '64 led the Techmen to about a length lead on both opponent shells with about three-quarters of a mile to go. MIT held on to this lead for the next half mile by rowing at a powerful 31 strokes per minute. With a quarter mile left, Tech raised the beat to 34, and shook off the much-improved Dartmouth crew with their sprint. The Engineers finished three lengths ahead of Dartmouth, and times were MIT 6:34.9, Dartmouth 6:46.6, and Yale 6:50.6.

## JV's win by three

MIT rowed the JV race with a reshuffled bow four, and rowed to a solid three-length victory. The Tech junior varsity finished

in 6:41.1, with Dartmouth 13 seconds behind in 6:54.6, and Yale bringing up the rear with a 6:59.1 clocking.

Sophomore stroke Don Smith paced MIT's third varsity boat to a six length victory over Yale's third boat. The Techmen led all the way in this race, and finished in 6:51.7, as Yale crossed the line in 7:15.7.

Frosh win close one  
In the first frosh race, MIT and

a strong Dartmouth led Blue of Yale to the line. Times were MIT 6:52, Dartmouth 6:58.6, and Yale 7:20.5. With a half mile to go, the Dartmouth crew started to sprint, but Tech stroke and captain Bruce Powell led his boat to the slimmest margin of victory for the Engineers that day.

The second frosh, rowing in about the best conditions of the day, edged out Dartmouth by eight seconds in 6:50.8.

## Varsity, frosh defeated

# Heavyweight crews split with Columbia

By C. R. Miller

The heavyweights split their races with Columbia last weekend with the JV and third Varsity winning, while the Varsity and Freshmen were unable to defeat the Lions from Columbia. The races, originally scheduled for Saturday afternoon, were postponed until Sunday morning on account of high winds. Conditions on the Charles were only moderate on Sunday because of a headwind blowing down the course.

## Varsity Outrowed

The MIT heavyweight Varsity started its race at about 43

strokes per minute, which was high for the prevailing conditions, but gained about a four-foot lead. Columbia started at 38, quickly caught up to the MIT boat, and began to move ahead with about one-quarter of the race gone. MIT, overstroking Columbia for most of the distance, rowed the body of the race between 31 and 32 strokes per minute but the Lions continued to move. The Engineers' only challenge came at the sailing pavilion when 10 power strokes helped Tech gain three seats on their opponents. With a bit less than half a mile to go, Tech decided to make a last bid to defeat their opponents, whom they now trailed by one and one-half lengths. The stroke rose to 35 and stayed there for the rest of the race, but MIT could not gain, as the Lions roared on to beat the Engineers by 9 seconds, with a winning time of 9:55.

## J V Endurance Decisive

The Tech heavyweight J V crew was not able to gain much at the start, but they showed their endurance as the race progressed. The Engineers, rowing at 30 beats per minute, understroked Columbia by one stroke during the body of the race. In spite of the difference, MIT had gained a six-second lead by the time the crews had rowed to the Harvard bridge. For the next three-quarters mile, the Engineers applied their knowledge of physics and power, and though they sprinted at only 35 strokes per minute, Tech beat the Columbians by 16 seconds, with a time of 10:24.

## Third Varsity Wins Easily

The third Varsity swept up the Columbians on the Henley course, though the race appeared close at the start. MIT and Columbia were almost even as the boats moved into the body of the race. MIT then launched a drive that Columbia could not compete with, and by the time the crews reach-

## West Point second

# MIT wins second straight Northeastern judo crown

MIT's Judo Club scored 107 out of a possible 150 points to win its second successive Northeastern Collegiate Judo Championship last Saturday. West Point, in second place, scored 92 points; while Harvard took third with 70, and Northeastern was fourth with 20.

The match was decided in the two final rounds when the Techmen went ahead by 15 points by defeating Northeastern, sweeping all 50 points in their battle to clinch the victory for the Engineers. Harvard scored two victories over West Point.

The representatives from Tech were Abraham Oort; second degree black belt; Don Morrison '66, first degree black belt; Jim Ormura '62; third kyu brown belt; Bob Gilmore '62, third yu brown belt; and Dana Lasher '65, fifth kyu white belt. West Point's Jim Hughes, third kyu brown belt received the award for the most outstanding individual performance.

This was the second year in which the MIT Judo Club, under the supervision of Mr. Harry Yarnagi, Judo Commissioner of the New England area, has sponsored such a meet. The Judo Club, which meets on Saturdays at 1:00 pm, always welcomes new members.

## On Deck

**Wednesday, April 24**  
Golf—Wesleyan, Away, 2:00 pm, Governor Dummer Academy (F), Home, 2:00 pm  
Lacrosse—Massachusetts, Away, 3:00 pm, Andover (F), Away, 3:00 pm  
**Thursday, April 25**  
Tennis—Dean Junior College (F), Away, 3:00 pm  
**Friday, April 26**  
Golf—New Hampshire, Merrimack, Home, 1:00 pm  
**Saturday, April 27**  
Baseball—Middlebury, Home, 2:00 pm, Harvard (F), Away, 3:00 pm  
Heavyweight Crew—Yale at New Haven  
Lightweight Crew—BIGLIN CUP: Harvard, Dartmouth at Hanover  
Lacrosse—Amherst, Home, 2:00 pm, Winchendon School (F), Home, 2:00 pm  
Tennis—Massachusetts, Home, 1:30 pm, Belmont Hill School (F), Home, 2:00 pm  
Track—Bowdoin (V&F), New Hampshire (V), Home, 12:30 pm  
Rugby—Holy Cross, Home, 1:30 pm  
**Sunday, April 28**  
Sailing—NEISA Championship Eliminations at Boston University, Regatta at Providence (F)  
**Monday, April 29**  
Baseball—Northeastern (F), Away, 4:00 pm  
Golf—Greater Boston at South Shore Country Club, Away, 2:00 pm  
Tennis—Brown, Home, 3:00 pm (V&F)  
**Tuesday, April 30**  
Baseball—Harvard, Away, 3:00 pm

# Netmen score three wins for six and four record

By Jim Taylor

Three straight wins in as many days last wee brought MIT's tennis record to six wins and four losses. The netmen beat Bowdoin, 8-1, at home April 18, shut out Colby, 9-0, at home April 19, and pulled out a 5-4 victory at Wesleyan the next day.

## Aasnaes Serves Underhand

Bent Aasnaes '64, Tech's number one player, was forced by a shoulder injury incurred during the Williams match to serve underhanded against Bowdoin. Despite this handicap he was still able to defeat Sam Ladd 6-3, 6-3. At number two, Marty Ormond '64 came back from a one set deficit to win 5-7, 6-3, 9-7. The other singles were as follows: no. 3 Jack Moter '64 defeated Tom Tom 6-2, 6-1; Bob Blumberg '64 tripped Steve Hecht, 7-5, 6-1; Terry Chatwin '63 zopped Hugh Hardcastle 6-1, 6-1, and Mike Long '65 blanked Louis Schwartz, 6-0, 6-0.

The only loss was sustained in the first doubles match where Chatwin and Blumberg lost to Ladd and Schwartz 7-5, 8-6. Long and Jim Taylor '63 defeated Hecht and Hardcastle 6-3, 8-6. At number three doubles Moter and Ken Comey '65 edged Tom Tom and Craig Magher 6-3, 8-6.

## MIT Sweeps Singles, Doubles

Colby proved to be a very weak adversary. Coach Crocker decided to rest the ailing Aasnaes and played Ormond at number one. Ormond came through with a crisp 6-2, 6-1, victory over Colby's Jack Mechem. At two Moter defeated Jim Crawford 6-1, 6-0. At three Blumberg overwhelmed Kim Snow 6-0, 6-2. Number four man Terry Chatwin edged Peter French 6-2, 6-4. Sophomore Mike Long scored an impressive win over Dave Anderson 6-0, 6-1 at five, and at six, Ken Comey nearly blanked Bob Lewis 6-1, 6-0. MIT fared equally well in the doubles as all three matches were won quickly by Techmen.

## Chatwin Takes Deciding Match

At Wesleyan Aasnaes returned to the lineup (however he was still forced to serve underhanded and to keep away from the net. His back court game was not enough as he lost to Mike Burton 4-6, 6-3, 6-1. Ormond again scored a comeback win at two, 0-6, 6-3. 6-1 Moter had less trouble at three winning over Tom Sra-

gens 6-1, 6-2. Blumberg defeated Clay Von Seldneck 6-3, 6-3. At number six Mike Long scored a 8-6, 6-1 victory over Fred Millett.

The deciding match proved to be the number five singles match where Terry Chatwin squeaked out an 11-9, 6-3 victory over Wesleyan's Tom Moreland. The match lasted almost three and one half hours with the first set alone taking 2 and a half. Chatwin managed to outsteady his very determined opponent.

## Techmen Lose Doubles

Techmen proved much less successful in the doubles. At number one Chatwin and Blumberg lost to Burton and Millett 6-3, 6-3. At two Long and Moter were defeated by Ron Whyte and Von Seldneck 6-4, 7-5. Taylor and Ormond lost to Sragens and Bob Older at number three 6-1, 8-6.

The next match is on the home courts on Saturday the 27th at 1:30 against the University of Massachusetts. Brown invades the duPont courts on Monday the 29th at 3:00.

# Tech nine toppled twice in final inning

By Donald Siefkes

The MIT baseball team lost to Boston State Teachers College, 9-3, on Thursday, April 18, and to Bates College, 8-7, on Saturday, April 20, bringing their season record to 2-10. Both games were decided in the ninth inning.

## Boston State Rallies

MIT saw a 3-1 lead evaporate

in the ninth inning when Boston State scored eight runs on five hits to win the game, 9-3. Tech got its three runs in the sixth inning when Lennie Ferrari, '64, doubled, Dick Adamec, '63, walked, and Larry Demick, '63, was hit with a pitched ball to load the bases.

Don Alusic, '64, knocked Ferrari and Adamec in with a single



Bates runner slides safely into first base under the tag of Don Alusic in Saturday's diamond contest at MIT. Bates scored two in the ninth to win, 8-7.  
—Photo by Joe Baron

# Varsity sailors second to Harvard in Oberg race; frosh win at Tufts

The varsity sailing team placed second behind Harvard in the contest for the Oberg Trophy last Friday on the Charles. All the other teams in the local area were also in this regatta, including: Boston University, Boston College, Babson, Northeastern, and Tufts.

## Klare 2nd High Scorer

Ken Klare '63 turned in a good performance, taking high point

position in A division and second place in over-all scoring. However, the combined forces of Scott Hynek '65, Ed Shaw '65, and Dave Schlosberg '64 could not back up Klare strongly enough, and Tech had to be satisfied with a second to the Harvard combination of Ford, Horn, and Stokely.

## Frosh First at Tufts

The freshmen were back at Tufts last weekend, taking a solid first among six teams. They scored 79 points to Northeastern's 71, with BU, Williams, and Wesleyan in the runner-up positions. Contributing to the victory were skippers Terry Cronberg, Joe Smullen, Don Schwanz, Bob Pursell, and Jeff Erwin.

## Bates Edges MIT

This game was also decided in the ninth inning when Bates scored two runs and MIT one to make the score 8-7, in favor of Bates. Tech tied the score at 6-6, by scoring four runs in the eighth inning. Demick led off with a single, Don Alusic, '64, walked, and Dave Dunford, '63, singled to load the bases, with nobody out. Demick was walked home; Alusic scored when Jim Bauman, '65, got on with a fielder's choice; Dunford came home on another fielder's choice, and Bauman was knocked in on a single by Ferrari. The winning pitcher was John Freeman, who walked six and struck out 10.

Bob Yanus, '64, was the losing pitcher; he walked three and struck out nine while going the entire distance.

The team meets Middlebury on Briggs Field this Saturday, April 27, at 2:00 and travels to Harvard on Tuesday, April 30.

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